



Al-Nahrain University

Annual report for sustainability

SUPERVISED BY:

Prof.Dr.Omer.F.Abdul-Rasheed

DESIGNED AND SUBMITTED BY:

Asst.Prof.Dr.Zaid Akram Thabit

Asst.Lec. Enas.F. Yahya

Asst.Lec. Anfal.H. Jassam



University : Al –Nahrain University
Country : Iraq

INTRODUCTION:

Al-Nahrain University is a public higher education institution established in 1987 in Baghdad, Iraq, offering undergraduate and postgraduate programs, as well as robust research opportunities. Its name, 'Al-Nahrain', translates to 'The Two Rivers', symbolizing Iraq's historic Tigris and Euphrates.

Currently, the university is revising its vision, mission, goals, and values. Specialized committees have been formed to redefine priorities, evaluate academic performance, and digitize administrative workflows in preparation for global university rankings.

Primary initiatives focus on empowering the faculty to adopt modern multimedia teaching methods and upgrading the infrastructure to meet student needs. The university aims to strike a balance between basic and applied research, fostering an environment for innovation, development, and commercialization. Furthermore, Al-Nahrain University supports both internal and external business incubators, leveraging scientific research to cultivate a self-funding economic model for the future.

As a beacon of science and culture, Al-Nahrain University remains committed to academic excellence, innovation, and openness to new ideas, solidifying its position as a leading institution in the Iraqi educational landscape



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Setting & Infrastructure (SI)



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[1] Setting and Infrastructure (SI)

[1.3] Number of Campus Sites

	Al-Jadriya campus
	Al-Kadhimiya campus

Al-Nahrain University has two sites, the first site is the Al-Jadriya campus in the Al-Jadriya area, with an area of **(482,500 m sq)**, and the second site is the site of the Al-Kadhimiya campus, located in Al-Kadhimiya area, with an area of **(165,000 m sq)**.

link:<https://drive.google.com/file/d/1fBpjaAjUc5p9cMZsW-rBTrDEsvMHGbo/view?usp=sharing>



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[1] Setting and Infrastructure (SI)

[1.4] Campus setting





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Al-Nahrain University is a leading Iraqi institution founded in Baghdad in 1987. Its main campus boasts a prime strategic location in the heart of Baghdad (specifically in the Jadriya district), making it one of the largest and most beautiful campuses in the area.

Set in an urban environment, the campus enjoys a unique location on the banks of the Tigris River, seamlessly integrating a vibrant natural waterfront into its architectural design. Despite its location in the densely populated capital, the campus is surrounded by expansive green spaces, tree-lined walkways, and meticulously landscaped gardens. This thoughtful green urban design acts as a sustainable environmental buffer, mitigating the urban heat island effect, promoting local biodiversity, and providing an eco-friendly and inspiring academic environment for all students and staff.



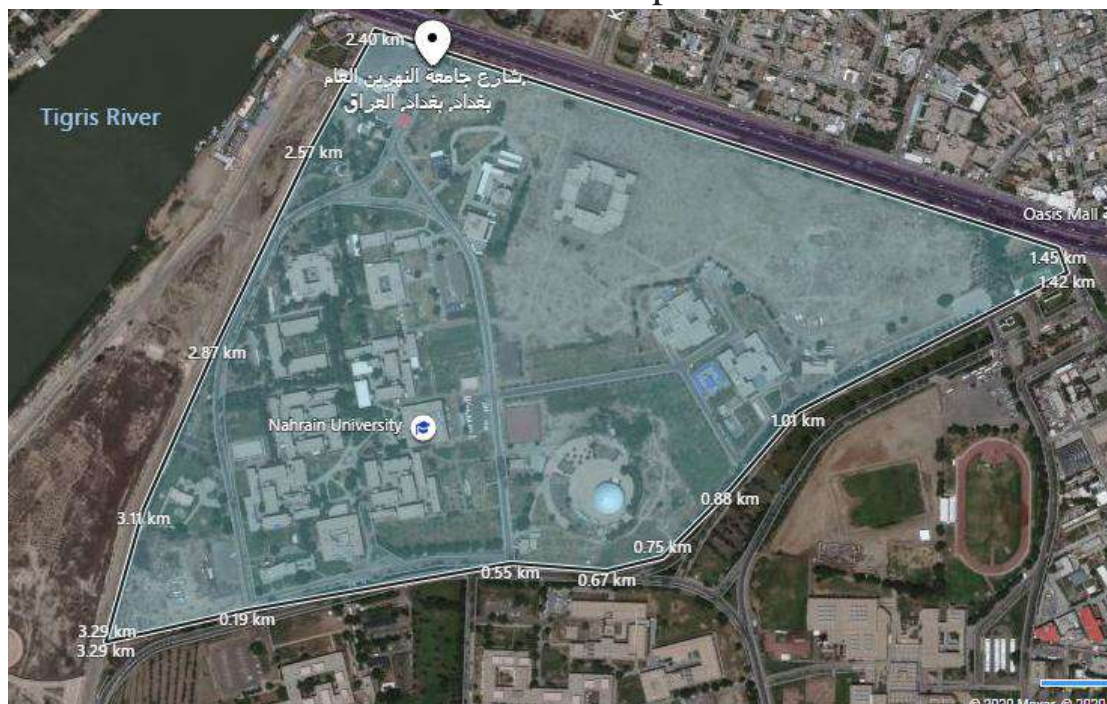
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1.5 Total campus area (m²)

Total area of all campus in Al –Nahrain University

campus	Distance	Area
Southern campus	15.5689 km	482,500 m sq
Northern campus	8.493 km	165,000 m sq
Total	24.062 km	647,500 m sq

Southern campus



Total Area of Southern campus = **482,500 m sq**



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Total distance/circumference of Southern campus = **15.5689 km**

Northern campus



Total Area of Northern campus = **165,000 m sq**

Total distance/circumference of Northern campus = **8.493 km**



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[1] Setting and Infrastructure (SI)

[1.6] Total campus ground floor area of buildings (m2)

Campus	Distance	Buildings
Southern campus	6.36594 km	560245.68 m sq
Northern campus	3.51228 km	26773.06 m sq
Total	9.87822 km	58,7018.74 m sq



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[1] Setting and Infrastructure (SI)

[1.7] Total campus buildings area (m2)

Buildings area
174,7063 msq





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Al-Nahrain University was established in 1987 and it includes two campus, one of them in Jadriya, which includes the College of Engineering, Science, Political Science, Information Engineering, Business Economics, Biology, Biotechnology Research Center, Forensic DNA Center for Research and Training, Al-Nahrain Research Center for Nano Renewable Energy, Electronic computer Center, and the other in Al-Kadhimiya includes Faculties of Medicine, Pharmacy and the Higher Institute for Infertility Diagnosis and Assisted Reproductive Technologies.



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[1] Setting and Infrastructure (SI)

[1.8] (SI.1) The ratio of open space area to total area

$$\begin{aligned} & \text{Formula: } ((1.5-1.6/1.5)*100\%) \\ & ((647,500 \text{ m sq} - 58, 7018 \text{ m sq} / 647500 \text{ m sq})*100\%) \\ & = (588, 7982 \text{ m sq} / 647500 \text{ m sq})*100\% \\ & = \mathbf{73 \%} \end{aligned}$$



Where (647.500 m sq) represent the total area of the Al-Nahrain university (southern and northern campus), (174, 7063 m sq) represent the building area of the university. Finally, (**73 %**) represent the ratio of open space to total area of the Al –Nahrain University.

link:https://drive.google.com/file/d/1XnRsJiMW6bcyHcl8gwuh1yhx7vhajwv_/view?usp=sharing

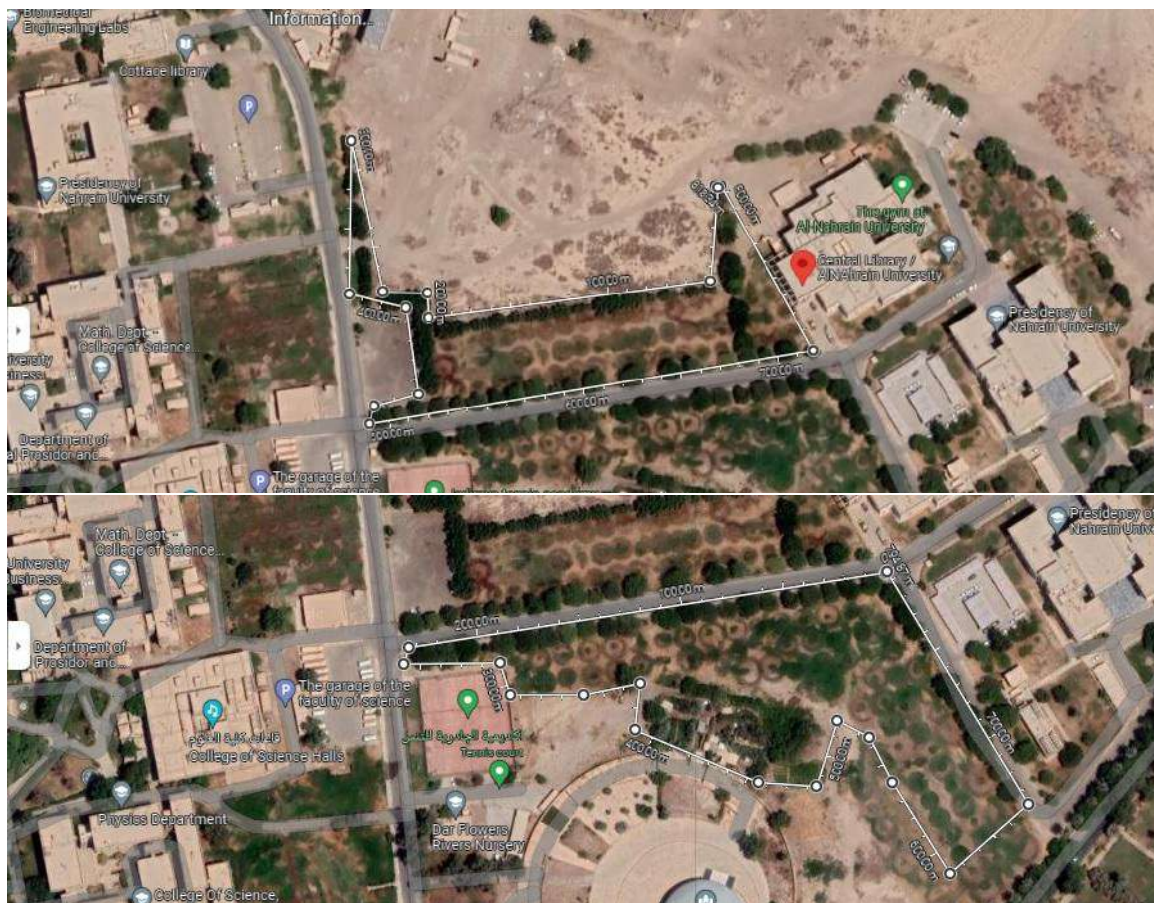


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[1] Setting and Infrastructure (SI)

[1.9] (SI.2) Total area on campus covered in forest vegetation

Forests	
Distance	Area
4494.46 M	76,454 m sq





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Where **(76,454 m sq)** represent the total area on campus covered in forest vegetation and **(4494.46m)** represents the Total distance/circumference of the Al-Nahrain university (Southern and Northern campus).

Additional evidence link: <https://drive.google.com/file/d/1fBpjaAjjUc5p9cMZsW-rBTrDEsvMHGbo/view?usp=sharing>



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[1] Setting and Infrastructure (SI)

[1.10] (SI.3) Total area on campus covered in planted vegetation

Planting	
Distance	Area
14,9736 km	269,458 m sq

Where (269,458 m sq) represent the total area on campus covered in forest vegetation and (14,9736 m) represents the Total distance/circumference of the Al-Nahrain university (Southern and Northern campus).

Total planted vegetation area: 269,458 m²

Total Area: 647,500 m²

Percentage area: 41%

Total Area on campus covered in planted vegetation and in forest vegetation

269,458 m sq+ 76,454 m sq = 345,912

Total Area: 647,500 m²

Percentage area: 53%



The image above show the new green spaces added to Al-Nahrain University, which were planted recently during the last year. They do not appear planted in the attached images because they were taken from the Google Maps browser, which currently does not have a recent update that keeps pace with the current situation of the university campus

Additional evidence link: <https://drive.google.com/file/d/1fBpjaAjJUC5p9cMZsW-rBTrDEsvMHGbo/view?usp=sharing>

Additional evidence

link: [https://drive.google.com/file/d/1XnRsJiMW6bcyHcl8gwuh1yhx7vhajwv /view](https://drive.google.com/file/d/1XnRsJiMW6bcyHcl8gwuh1yhx7vhajwv/view)



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[1] Setting and Infrastructure (SI)

[1.11] Total number of regular students (part time and full time)

Total	8077
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[1] Setting and Infrastructure (SI)

[1.12] Total number of online students(part time and full time)

Total	2019
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[1] Setting and Infrastructure (SI)

[1.13] Total number of academic and administrative staff

Total	4444
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[1] Setting and Infrastructure (SI)

[1.14] (SI.4) The total open space area divided by total campus population

$$\begin{aligned} \text{Formula: } & ((1.5-1.6)/ (1.11+1.13)) \\ & = (647,500 \text{ m sq} -58,7018 \text{ m sq})/ 8077+4444 \\ & = 588,798/12521 \\ & = 47 \text{ m}^2 / \text{person} \end{aligned}$$



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[1] Setting and Infrastructure (SI)

[1.15] (SI.5) Campus facilities for disabled, special needs, and/or maternity care

Al-Nahrain University is highly committed to providing an inclusive, accessible, and supportive environment for students and staff with disabilities, special needs, and maternity requirements. The university has established a dedicated central unit and adapted its infrastructure and academic policies to ensure equal opportunities through the following facilities and services:

- **Infrastructure & Accessibility:**
 - Designated parking spaces for people with disabilities located close to university buildings.
 - Specially designed parks and outdoor spaces catering to individuals with special needs.
 - Provision of wheelchairs to facilitate easy movement and mobility between campus facilities.
- **Academic & Tech Support:**
 - A specialized auditorium/hall equipped with multimedia screens displaying audio and video curricula.
 - Tailored tactile curricula (Braille-based) for visually impaired and blind students.
 - Audio headphones and listening devices to assist deaf and hard-of-hearing students during lectures.
- **Social & Psychological Care:**
 - Specialized administrative staff deployed across all faculties to follow up on the unique needs of disabled students.



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- Dedicated educational and psychological counseling teams operating on campus.
- An inclusive recreational club dedicated to students with disabilities.
- **Maternity & Child Care:**
 - An on-campus nursery ("Zuhour Al-Nahrain") is fully operational to support female employees and students by providing child care.
- **Institutional Policies:**
 - Official implementation of dedicated university admission and support policies explicitly protecting and aiding individuals with special needs.
- **Sports and Recreation Activities:**
 - An open gym is available for university students and staff to maintain physical fitness and health.
 - A variety of ongoing sports programs are offered specifically for students.
- **Social & Psychological Care:**
 - The psychiatric clinic within the Medical Advisory Office at the College of Medicine provides necessary medical assistance.
 - The university's Student Counseling Unit specializes in providing individual sessions for students and staff experiencing critical situations, ensuring they receive comprehensive psychological support.



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link: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>

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[1] Setting and Infrastructure (SI)

[1.16] (SI.6) Security and safety facilities

Broadcast emergency announcements inside all campus buildings, supported by an integrated safety and security infrastructure:

- 1- Comprehensive Surveillance (CCTV): Continuous monitoring through a network of CCTV cameras installed strategically inside and outside the buildings to ensure campus security.
- 2- Integrated Fire Protection System: A robust fire safety network that includes:

Automated fire alarm systems for early detection.

An on-campus fire truck dedicated to rapid emergency response.

Strategically distributed fire hydrants across all university facilities.

A comprehensive variety of fire extinguishers (all types) tailored to different campus environments.

- 3- First Aid & Medical Readiness:

Fully equipped first-aid kits strategically placed across all buildings and laboratories.

Regular training courses and workshops on first aid and emergency response for both staff and students.

Link:

<https://pol.nahrainuniv.edu.iq/blog/%D9%85%D8%AD%D8%A7%D8%B6%D>



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Link:

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4- Crisis Management & Emergency Planning:

A comprehensive emergency and crisis management plan to ensure organized response and safe evacuation procedures.

Link:

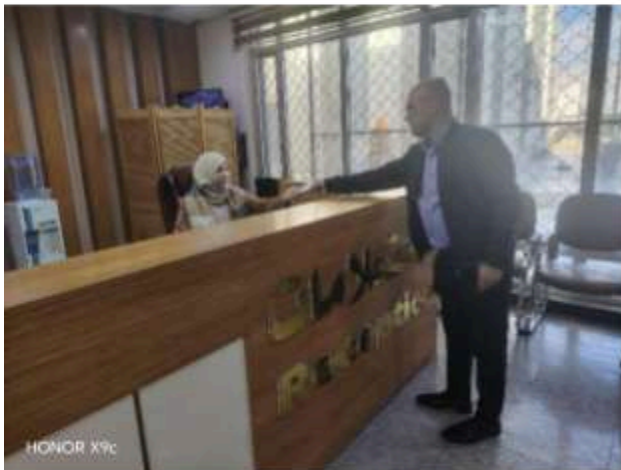
<https://drive.google.com/file/d/1bGXqNZzqGgJJNxlcoX2rH-MVaFDq53y/viiew?usp=sharing>

5- Access Control & Security Checkpoints:

Dedicated security checkpoints at all main and secondary campus gates to monitor and regulate access.

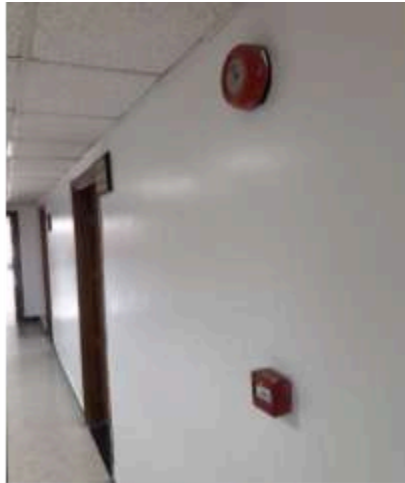


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[1] Setting and Infrastructure (SI)

[1.17] (SI.7) Health infrastructure facilities for students, academics, and administrative staff's well-being

Al-Nahrain University provides comprehensive and integrated health services to support the wellbeing of the entire academic community, including students, faculty members, and administrative staff.

The university campus hosts two dedicated health centers that provide high-quality medical services free of charge. These facilities are equipped to manage various medical needs through several specialized units:

- Health Care Center & Pharmacy: Provides general check-ups, primary medical care, first aid, and essential medications/treatments for routine and special cases.
- Dental Examination & Treatment Unit: Fully equipped to deliver basic dental care and diagnostics.
- Laboratory & Specimen Examination Unit: Conducts standard laboratory testing for patients.
- Ultrasound Examination Unit: Offers diagnostic imaging support on-site.
- The High Institute for Infertility Diagnosis and Assisted Reproductive Technologies: A specialized institutional formation within the university. It includes advanced consulting clinics that offer reproductive counseling and expert medical care to campus residents (students and staff) as well as external patients. It features a specialized laboratory and a fully functioning surgical operations center (including an IVF theatre).
- Digital & Electronic Healthcare: In a step toward modernizing healthcare education and access, the university has launched an electronic clinic for students and employees, incorporating the global InSimu Patient Application to simulate real-patient clinical scenarios.





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			Health Care Center Center Exterior
			Dental Examination Unit



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			Specimen Examination Unit
			An Ultrasound Examination and Monitoring Unit



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	<p>The High Institute for Infertility - IVF Operations Theatre</p>
	<p>Advanced Medical Equipment and Specialized Surgical Operations Team</p>



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[1] Setting and Infrastructure (SI)

[1.18] (SI.8) Conservation: plant (flora), animal (fauna), or wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities





Al-Nahrain University actively implements sustainable programs and dedicated facilities for the conservation and maintenance of biological resources within its campus:

- **Greenhouses for Plant Conservation (Flora):** The university owns and operates specialized greenhouses dedicated to the cultivation, seeding, and maintenance of green plants. These plants are periodically transplanted across the campus to enhance green spaces.
- **Out-of-Season & Medicinal Cultivation:** The greenhouses provide controlled environments (utilizing optimized humidity, flashing electric lamps for artificial light, and advanced ventilation) to cultivate decorative and medicinal herbs outside their natural growing seasons for research and aesthetic purposes.
- **Fauna & Food Resources (University Apiaries):** In addition to flora, the university manages its own apiaries (beehives). Throughout 2023, these apiaries systematically produced high-quality honey crops to meet the demands of campus residents and the local community.
- **Wildlife Protection & Biodiversity (Bird Feeding Initiative):** To support local wildlife and preserve avian fauna, the College of Business Economics has integrated a sustainable bird feeding initiative. This program includes establishing dedicated feeding and watering stations across campus green zones, providing a safe haven for local bird species and fostering environmental empathy and biodiversity conservation within the university ecosystem.
- **Digital Tree Tagging & Age Estimation Initiative:** As part of its commitment to biodiversity conservation, the university has implemented a systematic tree-tagging project across the campus. This initiative involves cataloging



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tree species, tracking their health status, and utilizing scientific methods to estimate the age of perennial and long-standing trees, creating a comprehensive digital ecological registry.

		<p>Greenhouses at Al-Nahrain University</p>
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		<p>Greenhouses at Al-Nahrain University</p>



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		Greenhouses at Al-Nahrain University
		University apiaries utilized for sustainable honey production.
		Digital Tree Tagging & Age Estimation Initiative



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Additional link:

<https://eco.nahrainuniv.edu.iq/posts/da1b4df0-043c-4024-ae22-269d014841fe/>

Additional link:

<https://www.facebook.com/100064089368390/posts/pfbid02DdbPZw9DqF4UWLC61rBnCHxcW2atidozz65pyvPGe5nb5NHKw5eP3DgER4E2DsCw/?mibextid=K8Wfd2>

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[1] Setting and Infrastructure (SI)

[1.19] Impact of Setting and Infrastructure programs in supporting the Sustainable Development Goals (SDGs).

Infrastructure Program / Initiative	Impacted SDGs	Target Outcome
Special Needs & Maternity Care Facilities	SDG 4, SDG 5, SDG 10	Providing equal, barrier-free access to education and support for working mothers and disabled individuals.
Campus Green Spaces & Parks	SDG 3, SDG 13, SDG 15	Reducing carbon footprints, combating heat, and enhancing local biodiversity.
Institutional & Medical Waste Cooperation Agreements	SDG 3, SDG 6, SDG 12	Preventing biological hazards, ensuring a toxin-free environment, and proper campus sanitation.
Published Sustainability Policies	SDG 17	Directing institutional development towards long-term sustainable frameworks.



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Energy & Climate Change (EC)

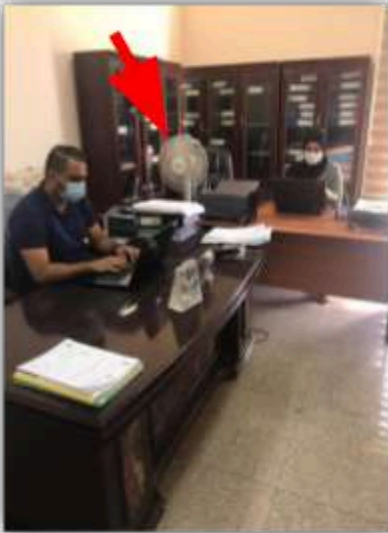


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[2] Energy & Climate Change (EC)

[2.1] (EC.1) Use of energy-efficient appliances

Al-Nahrain University seeks to save energy through the use of many energy-saving devices in all buildings within the campus (south and north).





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No.	Details	Total Number	Total number energy Efficient appliances	Percentage
1	Standard air conditioner	580	418	72%
2	Standard air conditioner(inverter)			
3	Standard lamps	7156	5654	79%
4	Standard lamps(LED)			
5	Desktop computers	660	400	60%
6	Desk top computers(Laptop)			
7	Stand Fan	200	150	75%
8	Refrigerator	150	100	66%
9	Solar system	5000	1000	20%
Average Percentage				62%

Al-Nahrain University generates electrical energy through generators with a capacity of 5000 kilowatts/h, as well as generating electrical energy through solar panels with a capacity of 1000 kilowatts/h.

Anti-Emissions Reduction Policy

Al-Nahrain University seeks to reduce and eliminate all types of emissions, whether biological or chemical, through Article Nine, which stipulates the use of energy-efficient devices..



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- **Article One:** Organize workshops, events, and educational seminars to raise awareness about the dangers of waste and its associated emissions and their impact on the environment.
- **Article Two:** Classify waste into two categories: recyclable waste, which will be transported to specialized recycling centers, and non-recyclable waste, which will be coordinated with the local government to allocate vehicles for safe collection and disposal.
- **Article Three:** For recyclable waste, the university departments will collect it through designated containers for each type, including separate bins for paper, plastic, metal, and food waste.
- **Article Four:** The university follows guidelines and instructions for the safe disposal and treatment of hazardous and toxic waste, with each type handled according to its specific requirements. The university also trains specialized personnel on proper waste disposal methods.
- **Article Five:** Possibility of establishing agreements with specialized entities for the safe disposal of all types of waste.
- **Article Six:** Form teams responsible for monitoring the implementation of this policy and submitting regular reports.
- **Article Seven:** Possibility of establishing agreements to invest in renewable energy sources and implement them within the university to reduce emissions from power generators.
- **Article Eight:** Promote sustainable transportation by encouraging the university community to use eco-friendly transportation options.
- **Article Nine:** Use energy-efficient devices through a sustainable procurement policy that mandates the purchase of such devices to reduce energy consumption

Evidence:

<https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>



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[2] Energy & Climate Change (EC)

[2.2] Total campus smart building area (m2)

Total campus smart building area
50,7706.152 m sq



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[2] Energy & Climate Change (EC)

[2.3] (EC.2) Smart Building implementation (percentage of the total floor area of smart building to the total all floors building area (smart and non-smart buildings area)).



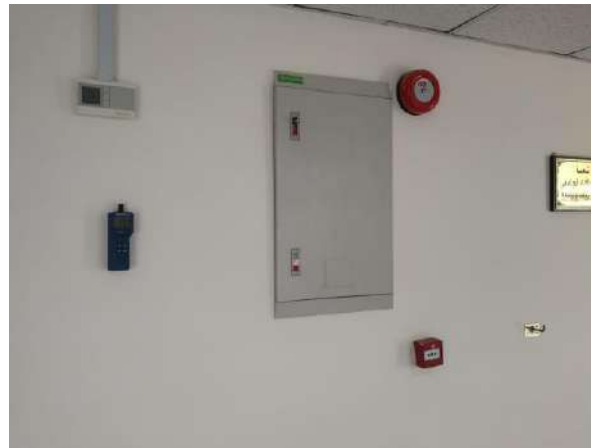


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No.	Name	Place	automation		Safety				energy		water		Indoor environment				lighting				Building Area (m ²)		
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4			
1	University of AL-Nahrain; sothren campus buildings	Jadriah,Iraq	x		x	x	x		x			x	x	x					x		x	x	491627.916 m2
2	University of AL-Nahrain; northern campus buildings	Kadhmiya,Iraq	x		x	x	x		x			x	x	x					x		x	x	16078.236 m2
Total																							507706.152 m2

total building area=1747062 m sq

total smart building area=507706.152 m2

(total smart building area/total building area)×100%

(507706.152 m2/1747063 m2)*100

= 29%



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[2] Energy & Climate Change (EC)

[2.4] (EC.3) Number of renewable energy sources in campus

Four sources:

- 1- wind power
- 2- solar power
- 3- bio diesel
- 4- Clean Biomass





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[2] Energy & Climate Change (EC)

[2.5] Renewable energy sources in campus and provide capacity produced in kilowatt-hour

Biodiesel=2250 kilowatt-h



Biodiesel

The university is committed to adopting and implementing an emissions reduction policy to minimize pollution and rely on alternative energy sources. The table shows the current number of generators for 2025 that are relied upon to provide electricity.

In alignment with the university's emissions reduction policy , the biodiesel produced on-campus (with a capacity of 2250 kWh) is currently being integrated and blended with the fuel used for the main electricity generators. This initiative aims to minimize the campus carbon footprint and enhance reliance on sustainable energy sources.

NO.	Name of the electric generator	Generator capacity
1	Caterpillar	1000 KV



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2	<i>Perkins</i>	<i>750 KV</i>
3	<i>Perkins</i>	<i>250 KV</i>
4	<i>Perkins</i>	<i>250 KV</i>

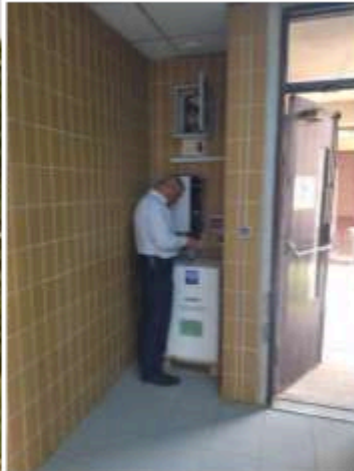


Solar Power

Al-Nahrain University supplies its classrooms, scientific laboratories, and other university buildings with electricity using a solar panel system with a capacity of 1000 kilowatt-hours. This system comes in two types: hybrid and off-grid. The university also installs solar-powered charging stations for mobile phones for students and staff in the campus courtyards.



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windmill = 1000 kilowatt-h

Clean Biomass = 100 kilowatt-h

The refrigeration, heating and power unit at Al-Nahrain University that uses biodiesel as fuel the heat can be used to heat water that used daily in campus.



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[2] Energy & Climate Change (EC)

[2.6] Electricity usage per year (in kilowatt-hour)

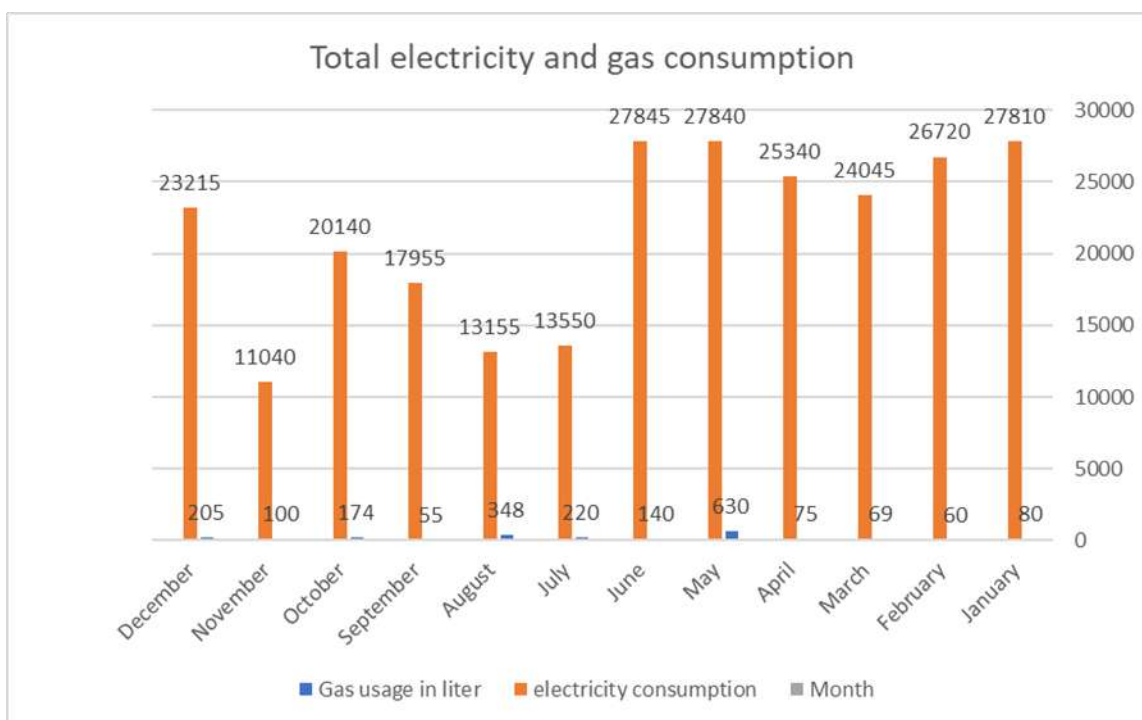
The total electricity consumption at Al-Nahrain University in 2025 was 258655 kilowatt-hours. Electricity is used on campus for lighting, cooling, heating, laboratory equipment, and classrooms. The following table shows the average electricity consumption and the average generator gas consumption.

Month	electricity consumption	Gas usage in liter
January	27810	80
February	26720	60
March	24045	69
April	25340	75
May	27840	630
June	27845	140
July	13550	220
August	13155	348
September	17955	55
October	20140	174



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November	11040	100
December	23215	205
Total	258655	2156





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[2] Energy & Climate Change (EC)

[2.7] (EC.4) The total electricity usage divided by total campus population (kWh per person).

Formula: (2.6) / 1.11+1.13

258655 kWh / 8077+ 4444

258655 kWh/12521





20.657 = (kwh per person)



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[2] Energy & Climate Change (EC)

[2.8] (EC.5) The ratio of renewable energy production divided by total energy usage per year

	
<p>Biodiesel Combined Cooling Heating and Power Integration Unit</p>	<p>Biomass Pellet Vacuum Boilers Provide Heating and cooling for the Building in winter and summer</p>
	
<p>Roof-mounted solar panels</p>	<p>Windmill power</p>



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No	Renewable Energy	Production (in kWh)
1	Biodiesel	2250
2	Clean Biomass	100
3	Solar panel	1000
4	Windmill	1000
	Total	4350

$4350 / 258655$ (Electricity usage) = 0.0168

$0.0168 * 100 = 1.68 \%$



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[2] Energy & Climate Change (EC)

[2.9] (EC.6) Elements of green building implementation as reflected in all construction and renovation policies





Taking advantage of natural light





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<p>Green spaces were included in the design of the new buildings to enhance the environmental balance and reduce the heat generated by the buildings.</p>	<p>Using sustainable Local materials in the construction process and choosing materials free of volatile organic compounds</p>
	
<p>Strategically orient buildings to take advantage of wind and light, which enhances natural ventilation and reduces the use of heating and cooling system</p>	<p>Use energy-saving devices</p>



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Al-Nahrain University has designed and implemented an innovative prototype of a smart vertical farming system. Key features of this initiative include:

Renewable Energy Integration: The system is powered by integrated solar PV panels to operate water pumps, ensuring zero carbon emissions and energy self-sufficiency.

Water Efficiency & Recycling: It utilizes a closed-loop water system (Hydroponics principles), significantly reducing water waste in line with green building water-saving standards.

Utilizes a central heating and cooling system throughout its campus buildings and is committed to minimizing electricity consumption by employing a VRF (Variable Refrigerant Flow) system for central cooling, and use air purification filters in bio-cooling systems.



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<p>Sustainable Indoor Greening: This vertical design promotes indoor air quality and expands green areas within campus buildings using minimal floor space.</p>	
---	--

This video showcases the university's green spaces and lush vegetation, including the gardens in the central courtyard of the lecture hall building and the College of Business Economics building.

Evidence: <https://www.facebook.com/share/r/Ly17y7a2bCXBgp8R/?mibextid=UalRPS>

Our university is making concerted efforts to enhance energy efficiency in its buildings and prioritizes environmental sustainability and energy resources. This is achieved through the use of energy-efficient appliances, a renewable energy policy, an energy conservation program, green building initiatives, climate change adaptation, and a policy to reduce greenhouse gas emissions through the implementation of an energy management strategy.

Green building standards for Al-Nahrain University

Element 1
Energy Efficiency
Design & Performance
Lighting Zoning
Electrical Sub-metering
Renewable Energy



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Commissioning
Enhanced or Re-commissioning
On-going Post Occupancy Commissioning
Monitoring, Improvement & Maintenance
Monitoring & Improvement
Sustainable Maintenance
Element 2. Indoor Environmental Quality
Air Quality
Minimum IAQ Performance
No Smoking in Buildings
Carbon Dioxide Monitoring and Control
Indoor Air Pollutants
Thermal Comfort
Thermal Comfort: Controllability of Systems
Air Change Effectiveness
Lighting, Visual & Acoustic Comfort
Daylighting



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Electric Lighting Levels
Verification
IAQ Before/During Occupancy
Occupancy Comfort Survey: Verification
Element 3. Sustainable Site Planning & Management
Facility Management
Building Exterior Management
Integrated Pest Management, Erosion Control & Landscape Management
Transportation
Green Vehicle Priority - Low Emitting & Fuel Efficient Vehicles
Parking Capacity
Sustainable Materials & Resources and Policy
Sustainable Timber
Sustainable Purchasing Policy
Waste Management



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Storage, Collection & Disposal of Recyclables
Element 5. Water Efficiency
Water Harvesting & Recycling
Rainwater Harvesting
Water Recycling
Increased Efficiency
Water Efficient - Irrigation/Landscaping
Water Efficient Fittings
Element 6. Innovation
Innovation & Environmental Initiatives
Green Building Index Facilitator



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[2] Energy & Climate Change (EC)

[2.10] (EC.7) Greenhouse gas emission reduction program

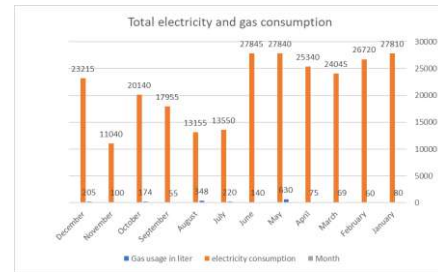
 	   
<p>1. Charge parking</p>	<p>2. Renewable energy</p>



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3. Bicycles ride



4. Electricity consumption



5. workshops in sustainability programs



6. Tree planting and green campus



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7.LED lighting systems



8. solar-powered charging stations

The university has implemented a comprehensive Greenhouse Gas (GHG) Emission Reduction Program as part of its commitment to environmental sustainability and climate change mitigation. The program aims to reduce carbon emissions through efficient energy management, sustainable transportation solutions, and environmental awareness initiatives.

Key actions implemented by the university include:

1- Implementation of an electronic parking management system (E-Parking) to regulate vehicle entry, reduce traffic congestion, minimize unnecessary car movement, and lower greenhouse gas emissions.

2-Adopting renewable energy solutions such as solar energy systems for irrigation and electricity generation

3- Provision of bicycles inside the campus to encourage eco-friendly transportation and reduce dependence on private vehicles.



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4-Continuous monitoring and reduction of electricity consumption and gas usage.

5- The university promotes energy conservation practices among staff and students through organized environmental awareness campaigns, workshops, and sustainability programs addressing climate change mitigation and responsible energy consumption.

6- Tree planting and green campus initiatives to enhance carbon sequestration.

7- Installation of energy-efficient LED lighting systems across campus facilities.

8- Deployment of solar-powered charging stations for mobile devices within the campus to promote renewable energy utilization, enhance environmental awareness, and contribute to greenhouse gas emission reduction.



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[2] Energy & Climate Change (EC)

[2.11] Please provide the total carbon footprint (CO₂ emission in the last 12 months, in metric tons)

CO₂ (electricity)

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84$$
$$= (258655 \text{ kW}/1000) * 0.84$$
$$= 217.27 \text{ metric tons}$$

CO₂ (bus)

$$= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$
$$= ((17 * 2 * 2 \text{ km} * 240) / 100) * 0.01$$
$$= (16320 / 100) * 0.01$$
$$= 1,63 \text{ metric tons}$$

CO₂ (cars)

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02$$
$$= ((485 * 2 * 2 \text{ km} * 240) / 100) * 0.02$$
$$= (465600 / 100) * 0.02$$
$$= 93 \text{ metric tons}$$

CO₂ (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$
$$= ((1 * 2 * 2 \text{ km} * 240) / 100) * 0.01$$
$$= (960 / 100) * 0.01$$
$$= 0,096 \text{ metric tons}$$

CO₂ (total)

$$= 217.27 + 1,63 + 93 + 0,096$$
$$= 311.996 \text{ metric tons}$$

Carbon footprint in 2025 = 311.996 metric tons



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As part of the university’s commitment to energy efficiency and climate change mitigation, greenhouse gas (GHG) emission reduction was estimated based on total electricity consumption and the standard emission conversion factor.

The total electricity consumption recorded was **258,655 kW**, which was converted into megawatt-hours (MWh) and multiplied by the emission factor of **0.84 tCO₂/MWh**.

Calculation:

$$(258,655 \div 1000) \times 0.84 = 217.27$$

The university achieved an estimated reduction of **217.27 tons of CO₂ emissions**, reflecting the impact of implemented sustainability initiatives including renewable energy utilization, energy conservation practices, sustainable transportation measures, and smart campus management systems.

This calculation supports the university’s greenhouse gas emission reduction program under the Energy and Climate Change category (EC) and demonstrates continuous commitment toward sustainable campus development and global climate action goals.



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[2] Energy & Climate Change (EC)

[2.12] (EC.8) The total carbon footprint divided by total campus population (metric tons per person).

Formula: $(2.11)/(1.11+1.13)$

= $311.996 / 8077 + 4444$

$311.996 / 12521$

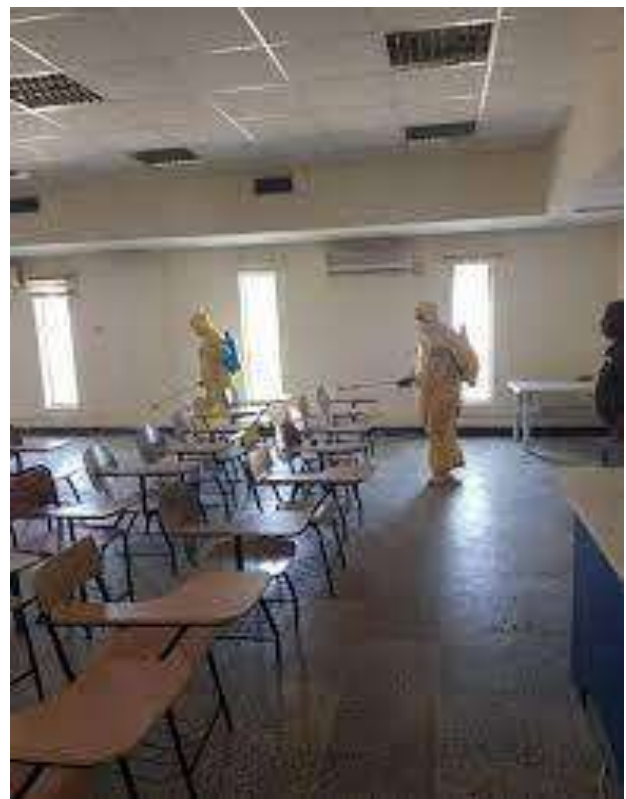
= 0.02 %

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[2] Energy & Climate Change (EC)

[2.13] (EC.9) Number of innovative program in Energy and Climate Change

1- sterilization operations





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Al-Nahrain University is carrying out continuous campaigns to sterilize university buildings and classrooms by specialized cadres to limit the spread of Covid 19





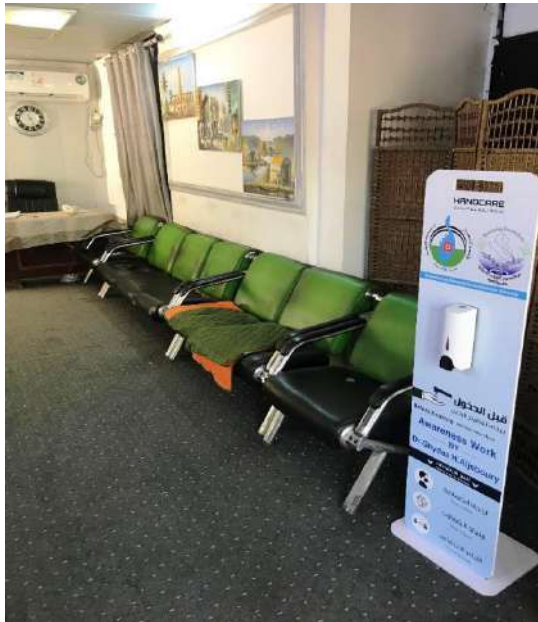
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2- Book sterilizer device

Al-Nahrain University has a book sterilizer that works on the principle of ultraviolet sterilization

The device sterilizes books and thesis to prevent corona virus and protect teaching and study staff.

3- Hand sanitizer device



Al-Nahrain University has deployed hand sanitizers in all campus buildings at the entrances to the main gates of each building for use by campus residents to limit the spread of COVID-19.



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4- Electric sterilizer device

Al-Nahrain University uses an electric sterilizer to ensure the sterilization of the atmosphere and surfaces to ensure the safety of the campus residents.

5- air sanitizer filter



Al-Nahrain University uses filters to sanitize the air from viruses, bacteria and gases emitted from outside or inside the building to preserve the building environment from pollutants.



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[2] Energy & Climate Change (EC)

[2.14] (EC.10) Impactful university program on climate change

1. Sustainable Campus Afforestation and Microclimate Enhancement Program

Al-Nahrain University operates a comprehensive ecosystem management program aimed at expanding campus green spaces to act as local carbon sinks and mitigate the urban heat island effect. The university manages specialized, high-tech greenhouses equipped with optimized humidity control, artificial lighting, and ventilation systems. These facilities ensure year-round cultivation, seeding, and propagation of various flora and decorative/medicinal plants. Once matured, these plants are systematically transplanted across different campus zones to increase vegetation cover, improve air quality, and absorb carbon dioxide emissions.

Link:

https://drive.google.com/file/d/1WeSHpbiMqVOS1sEHZfywEh9S_Zh81giy/view?usp=sharing

2. Digital Tree Tagging and Ecological Registry Initiative

As a direct response to tracking climate resilience and biomass stability, the university has implemented an advanced, systematic digital tree-tagging project across the entire campus. This initiative involves cataloging tree species, tracking their health status against climate stresses, and using scientific methodologies to estimate the age of perennial and long-standing trees.

Link:

https://drive.google.com/file/d/1WeSHpbiMqVOS1sEHZfywEh9S_Zh81giy/view?usp=sharing

3- Digital Governance Platforms

- Institutional Digital Transformation and Paperless Governance: The official adoption and implementation of digital governance platforms—including HEPIQ, the Student Information System (SIS) portal,



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and the Bologna Process platform—have significantly minimized the university’s carbon footprint by reducing paper waste, chemical ink consumption, and unnecessary commuting.

Link: 3.4

4- Solar Energy Systems & AI Research

Research Programs in Renewable Energy and Smart Grids: The university actively supports scientific research programs focused on solar energy systems integrated with artificial intelligence and computational optimization. These programs aim to develop efficient clean energy solutions, reduce institutional dependence on fossil fuels, and train future engineers to address climate challenges.

The link below lists all research published in 2024/2025.

Link:

https://drive.google.com/file/d/1RCrrrsxS3MsA7V_3ye3k7Nxr-y43hzWN/view?usp=sharing

5- Sustainable Graduation Projects Exhibition

The university holds annual innovation and employment fairs for students, which include events, competitions, job opportunities, and awards for winning graduation projects.

Link:

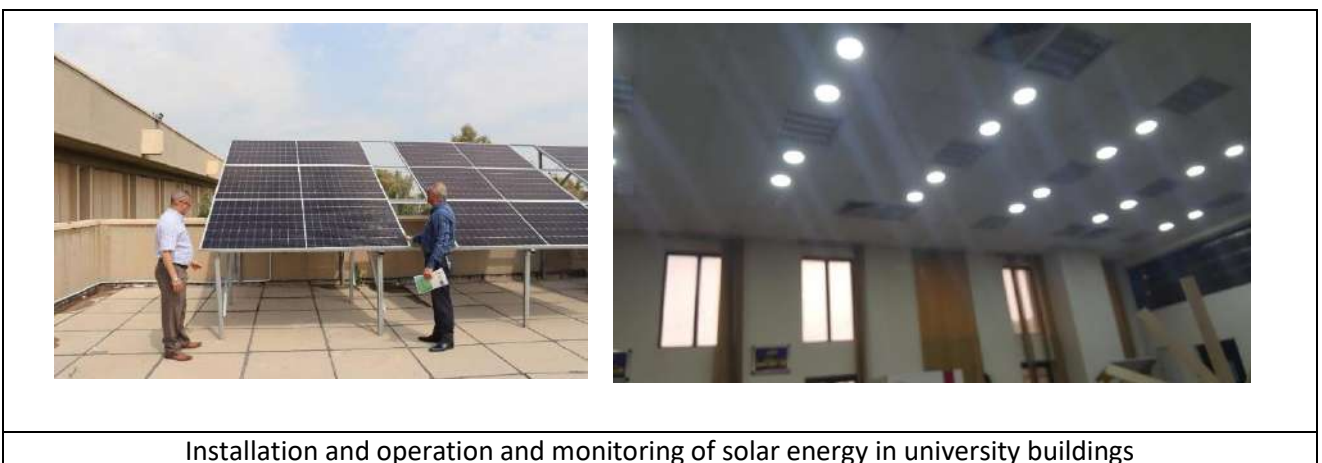
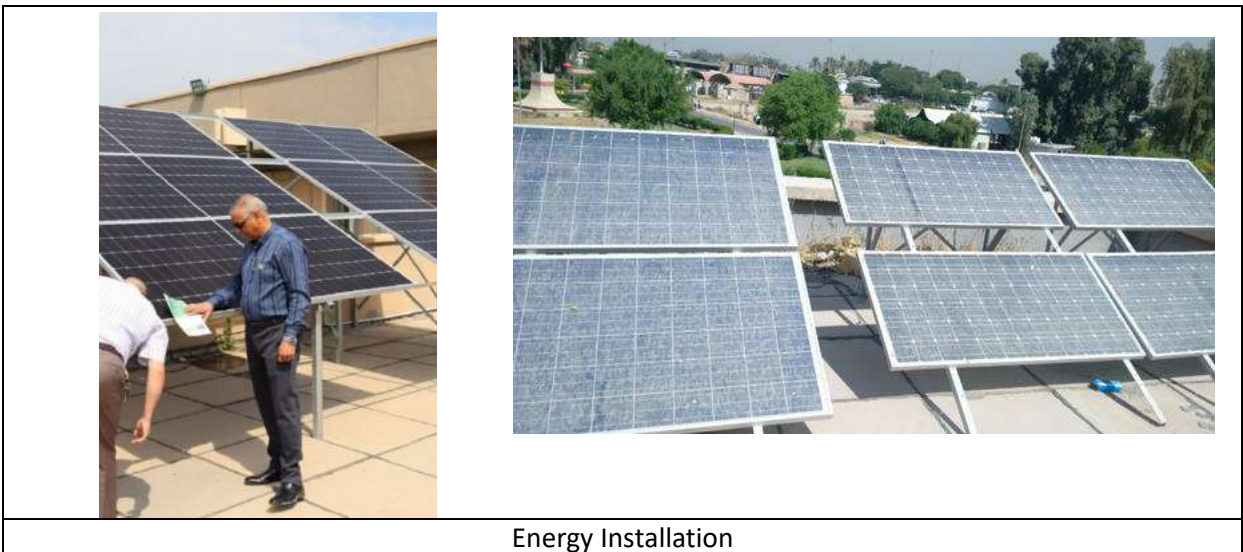
<https://nahrainuniv.edu.iq/sites/default/files/20%نشاطات20%شعبية20%التأهيل.pdf>
[والتوظيف20%والمتابعة.pdf](https://nahrainuniv.edu.iq/sites/default/files/20%والتوظيف20%والمتابعة.pdf)



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[2] Energy & Climate Change (EC)

[2.15] Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals (SDGs).





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Al-Nahrain University is committed to global sustainability by aligning its energy and climate programs with the UN Sustainable Development Goals (SDGs). Our initiatives focus on reducing carbon emissions through a diversified renewable energy portfolio and a strict energy conservation policy. Key impacts include:

Renewable Energy Integration (SDG 7): The university successfully operates a diversified green energy portfolio, including a Biodiesel CCHP unit (2250 kWh), Solar PV systems (1000 kWh), and Wind energy (1000 kWh).

Innovation & Infrastructure (SDG 9): By utilizing the Technology Incubator, the university provides a "Living Lab" environment for students to develop smart energy solutions. Our programs use ICT and Excel-based analytical tools to monitor performance and evaluate the technical feasibility of new green projects.

Decent Work & Economic Growth (SDG 8): Through the Science and Technology Park, Al-Nahrain University supports startups and entrepreneurs in the clean energy sector. The Idea Forum and Startup Program help transition academic research into viable green businesses, fostering a low-carbon economy.

Energy Efficiency & Responsible Consumption (SDG 12): The university implements strict energy conservation policies, achieving a total consumption of 258,655 kWh. This is supported by smart building technologies and the reuse of waste heat for campus facilities.

Climate Action (SDG 13): Our integrated approach—blending biodiesel, expanding solar arrays, and incubating climate-resilient technologies—directly mitigates the campus's carbon footprint and contributes to national climate goals.

Quality Education (SDG 4): Energy installations serve as practical training sites for undergraduate and postgraduate students, bridging the gap between theoretical knowledge and industrial application in renewable energy.



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Partnerships for the Goals (SDG 17): The university strengthens ties between academia, the Directorate of Research and Development, and industrial partners to implement high-impact sustainability roadmaps.

Program / Activity	Supported SDG	Impact & Mechanism
Biodiesel CCHP Unit	SDG 7 & SDG 13	Clean energy production and carbon emission reduction.
Solar PV & Wind Systems	SDG 7 & SDG 11	Increasing renewable energy share and campus sustainability.
Technology Incubator	SDG 8 & SDG 9	Transforming research into startups and green jobs.
Science and Technology Park	SDG 9 & SDG 17	Industry-academia partnerships for innovative infrastructure.
Monitoring & Analysis (Excel/ICT)	SDG 9 & SDG 12	Digitalization for energy efficiency and resource management.
Idea Forum Platform	SDG 4 & SDG 8	Practical education linking curricula to green markets.
Energy Conservation Policy	SDG 12	Responsible consumption and waste reduction (258,655 kWh).



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Evidence : <https://nahrainuniv.edu.iq/ar/node/26328>

Description: This document outlines the official framework and evaluation criteria for technological incubator projects at Al-Nahrain University. It emphasizes Scientific and Practical Value Added, Technical Feasibility, and Impact Assessments. This rigorous selection process ensures that climate-related startups (such as those in renewable energy) are evaluated based on their innovation and their potential to drive tangible environmental and economic changes.

Evidence : <https://nahrainuniv.edu.iq/ar/node/26327>

Description: This link provides official information about Al-Nahrain University's Technology Incubator and Ecosystem. It details how the university supports renewable energy startups and climate-related innovations through specialized programs (Idea Forum and Startup Program), providing the necessary ICT tools, labs, and financial networking to scale up sustainable solutions.



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Waste (WS)



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[3] Waste (WS)

[3.1] (WS.1) 3R (Reduce, Reuse and Recycle) Program for University Waste

1- Waste Segregation

-Al-Nahrain University adopts a strict source-segregation strategy by deploying color-coded recycling bins (Paper, Plastic, Glass, and Metal) across all campus pathways, colleges, and cafeterias. This ensures that recyclable materials are effectively isolated from general waste streams at the point of disposal.

-Promoting environmental awareness: These containers have been placed in strategic locations and college corridors for easy access by students and staff, contributing to spreading a culture of self-sorting and raising awareness in the university community about the importance of sustainable waste management. The mechanism used for safe disposal: These containers are emptied periodically by service staff while maintaining the isolation of each type of waste, to be later handed over to the competent authorities for processing and recycling each category, in order to ensure that organic and inorganic wastes do not mix and to achieve healthy and safe disposal of them.

2- Partnerships for Recycling & Circular Economy

-The collection and treatment of sorted campus waste are executed in strategic collaboration with the Municipality of Baghdad (Amanat Baghdad). Collected materials are systematically transported to certified local recycling facilities to be processed into secondary raw materials, such as recycled metal and paper products, thereby fostering a circular economy.

3- E-Waste Minimization and Maintenance Policy:

-Al-Nahrain University adopts a proactive strategy to minimize electronic waste by prioritizing maintenance, repair, and component upgrading over disposal. Instead of discarding faulty or outdated IT hardware and laboratory electronics, the university utilizes dedicated technical maintenance units to refurbish and repair equipment.



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-Technical staff inspect, repair, and upgrade components (such as computers, monitors, and lab instruments), extending their operational lifespan and returning them to service across various departments.

Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>

4- Al-Nahrain University supports systems that reduce paper and plastic use by transitioning from traditional paper-based transactions to integrated digital solutions

To reduce paper consumption, the university has successfully implemented and integrated electronic systems, as detailed in File 3.4

Evidence: <https://drive.google.com/file/d/1j46lBydYvwoClji-BjltumulvbdE2KTg/view?usp=sharing>



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[3] Waste (WS)

[3.2] Total volume of paper and plastic produced this year

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
Plastic	40	37	6
Paper	160	17	7



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[3] Waste (WS)

[3.3] Total volume of paper and plastic produced last year

Type of waste	amount (ton)		
	Produced		reduced
	Last year	This Year	
Plastic	40	37	6
Paper	160	17	7



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[3] Waste (WS)

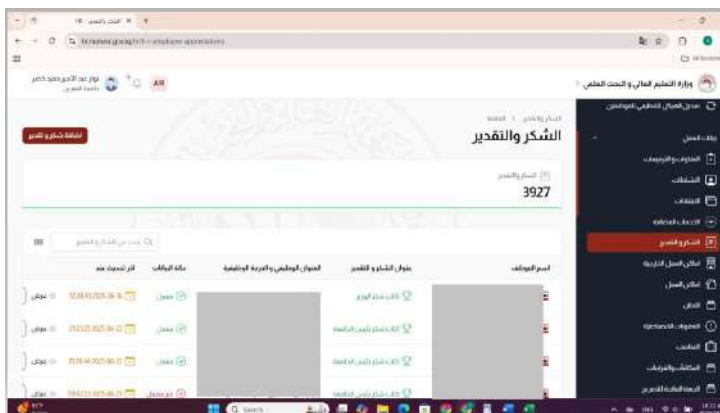
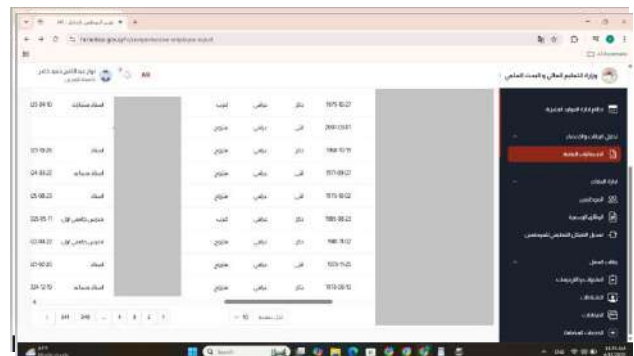
[3.4](WS.2) Program to reduce the use of paper and plastic on campus

Al-Nahrain University supports systems that reduce paper and plastic use by transitioning from traditional paper-based transactions to integrated digital solutions:

Digital Governance & Electronic Administration Systems

With the aim of reducing paper consumption, the university has successfully deployed and integrated the following electronic systems:

1- Employee Affairs Management System (HR): This system digitizes and tracks all employee records and all administrative procedures related to human resources, and also allows the preparation of monthly reports through this system.

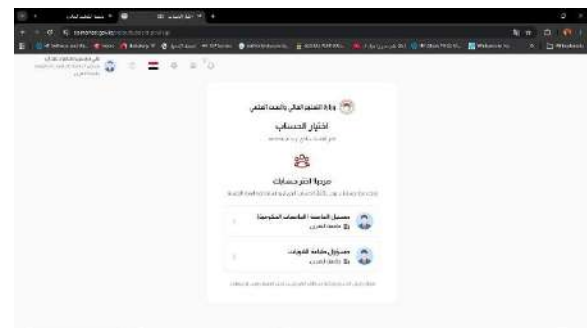
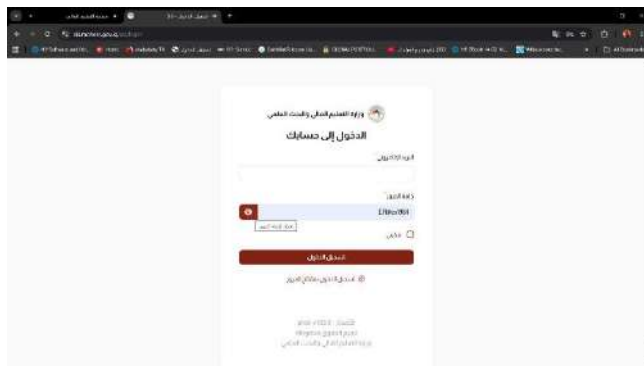




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Student Affairs Management System: Handles academic archiving, registration data, and student files electronically.

Unified Student Registration System: Streamlines the admission and enrollment processes across all colleges digitally.



3- Dormitory Housing Application Form: Converts the entire accommodation and housing request process into a paperless digital form.

The evidence is in the link below.

Evidence: <https://dormitories.nahrainuniv.edu.iq/?q=node/1>

4- National Testing Application Platform: Manages registration, scheduling, and processing for national exams online.

The evidence is in the link below.

Evidence: <https://nahrainuniv.edu.iq/ar/node/26617>



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5- Vehicle Badge Application Form :Digitizes security clearance requests and vehicle access badge issuances on campus.

The evidence is in the link below.

Evidence: <https://badges.nahrainuniv.edu.iq/>

6- Incentives Calculation System: Automates the financial evaluation and calculation of staff incentives without paper logs.

The evidence is in the link below.

Evidence: https://points.nahrainuniv.edu.iq/log_in.aspx

7- University Faculty CV System: A centralized digital repository for the academic profiles, research, and CVs of all faculty members.

The evidence is in the link below.

Evidence: <https://cv.nahrainuniv.edu.iq/>

8- Salary Details Display System: Provides staff and faculty with digital access to their monthly salary breakdowns and slips.

Evidence: <https://salaryinfo.nahrainuniv.edu.iq/>

9- President’s Office Request & Grievance Form : Digitizes the submission of personal interviews, proposals, and complaints directly to the University President's office.

Evidence:

10- Implementation of an Electronic Archiving and Paperless Management System

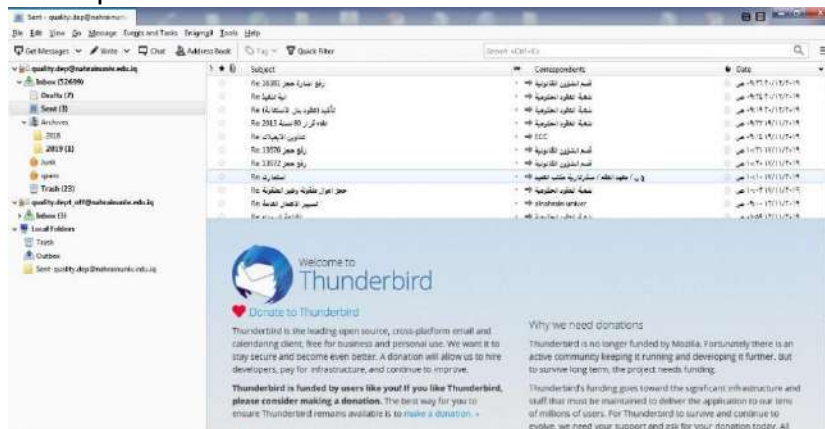
Electronic Archiving System (E-Archiving) has been successfully implemented. This system digitizes the entire administrative correspondence and incoming/outgoing mail workflows. By transitioning from traditional paper-based archives to a secure, centralized digital repository, the university has drastically minimized its reliance on paper, toner, and physical storage utilities.



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11- Using of e-mail and digital communication: Utilizing email (e.g., Thunderbird) for official correspondence over the Internet or via social media sites to minimize paper routing.





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12- **ouble-sided printing policy:** Implementing a strict policy to print on two sides of the paper whenever printing is necessary.



13- **Eco-friendly utensils:** Encouraging the reuse of plastic bags and using glass or ceramic cups instead of single-use plastic cups to drastically reduce plastic waste.



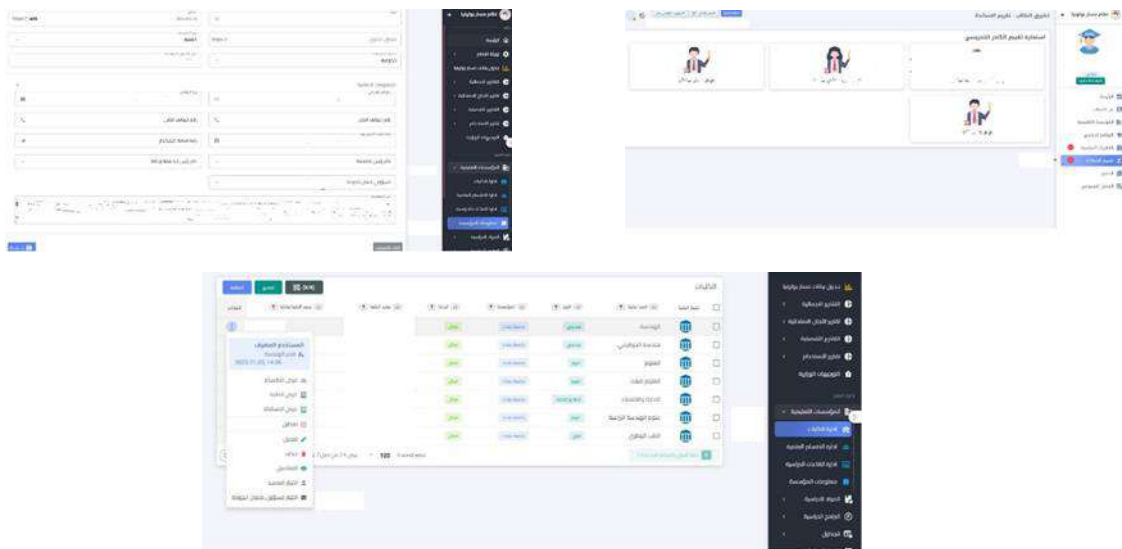
14- **Smart Boards in Education:** Utilizing electronic smart boards to give lectures to students, significantly reducing the reliance on traditional paper notebooks and printing compared to traditional boards.



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15- A centralized digital system dedicated to managing the curricula, European Credit Transfer and Accumulation System (ECTS), and student assessments under the **Bologna Process**, ensuring strict compliance with national academic regulations and transparent data tracking.



16- An electronic service adopted by Al-Nahrain University through the HEPIQ platform (the academic portal provided by the Iraqi Higher Education Platform) since last year and it continues to this day. In addition, all colleges of the university have been using the Moodle platform since 2020. These two innovative digital platforms help students and lecturers meet their educational needs by providing integrated solutions, supporting digital transformation, and facilitating the management of academic and administrative affairs in Iraqi universities.



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17- A special platform for complaints, suggestions and reports is available to all citizens, students and employees to communicate directly with the university's executive leadership.



Link: <https://complaints-app.nahrainuniv.edu.iq/>



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[3] Waste (WS)

[3.5] Total volume organic waste produced this year (ton)

Al-Nahrain University implements a model and integrated infrastructure for organic waste management across the university. It continuously improves its strategy by implementing targeted waste reduction initiatives through comprehensive awareness campaigns to minimize food waste, conducted by staff from the Sustainable Development Unit and student teams (student sustainability teams). Most importantly, the university adopts a rigorous model for its green waste; 100% of organic garden waste and fallen leaves are shredded and fully composted on campus. This compost is then processed within the university and used entirely to enrich and maintain the university's green spaces, gardens, and open ecosystems.

Al-Nahrain University's agricultural unit has been actively executing an internal recycling and composting program. The process involves collecting various green and botanical residues from the campus. The refined organic waste is mixed with calculated amounts of Urea fertilizer and bird waste collected from diverse university sites to optimize nutrient levels. The mixture is then tightly sealed under specialized agricultural nylon sheets, carefully hydrated via an integrated irrigation pipe network, and left to undergo anaerobic decomposition and aging for a full 9-month period. The resulting rich organic compost is utilized locally as a natural fertilizer and cultivation medium to sustain the university's green landscape.

Al-Nahrain University's success in reducing food waste by 20 tons this year is attributed to the formal implementation of food safety and waste reduction procedures established by the university administration for its cafeterias and food courts. These procedures include precise quantity control systems that estimate daily meal needs based on anticipated student attendance, thus minimizing overproduction. Furthermore, a dedicated food safety team oversees a comprehensive waste sorting infrastructure, utilizing designated containers for organic waste to separate food waste. This is significantly supported by ongoing student-led awareness campaigns using motivational signs and educational materials to reduce food waste.



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Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
organic	140	115	30	65		
- food waste	100	80	20	30		
- leaf	40	35	10	35		

Evidence link : <https://drive.google.com/file/d/1xriY-B-FpISQd61ze-MSOVt9QX3hf0Y1/view?usp=sharing>

Evidence link : <https://drive.google.com/file/d/1lJts5IbTGckQjdots0g3hQfuuV14MMMd/view?usp=sharing>

A model of one of the selected work sites for burying agricultural waste and converting it into compost.





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[3] Waste (WS)

[3.6] Total volume organic waste produced last year (ton)

Al-Nahrain University implements a model and integrated infrastructure for organic waste management across the university. It continuously improves its strategy by implementing targeted waste reduction initiatives through comprehensive awareness campaigns to minimize food waste, conducted by staff from the Sustainable Development Unit and student teams (student sustainability teams). Most importantly, the university adopts a rigorous model for its green waste; 100% of organic garden waste and fallen leaves are shredded and fully composted on campus. This compost is then processed within the university and used entirely to enrich and maintain the university's green spaces, gardens, and open ecosystems.

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Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
organic	140	115	30	65		
- food waste	100	80	20	30		
- leaf	40	35	10	35		

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/b1605f27-01fc-444f-b884-52e5ed96ccb0/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/f3b8b2ef-e77b-4c42-a266-5871153025fc/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/0576092b-f961-4c12-bfc5-e62d577d2286/>

Evidence link : <https://drive.google.com/file/d/1xriY-B-FpISQd61ze-MS0Vt9QX3hf0Y1/view?usp=sharing>

Evidence link : <https://drive.google.com/file/d/1Jts5IbTGckQjdots0g3hQfuuV14MMMd/view?usp=sharing>

A model of one of the selected work sites for burying agricultural waste and converting it into compost.





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[3] Waste (WS)

[3.7] Total volume organic waste treated this year

Al-Nahrain University targets continuous development in its circular economy applications by maximizing the treatment and reuse of organic mass. Out of 115 tons of total organic waste produced on campus this year, 65 tons were successfully treated and fully composted internally. This volume comprises 35 tons of garden green waste and leaf litter, which represents 100% of the collected botanical residues, and 30 tons of managed food waste from campus cafeterias. The agricultural unit processes this mixture over a 9-month anaerobic aging period to manufacture high-quality, nutrient-rich organic compost, which is utilized entirely to support and maintain the university's green landscapes, nurseries, and botanical gardens.

Type of waste	amuount (ton)			
	total	reduced	reused	recycled
organic	115	30	65	
- food waste	80	20	30	
- leaf	35	10	35	

Evidence link : <https://drive.google.com/file/d/1xriY-B-FplSQd61ze-MS0vt9QX3hf0Y1/view?usp=sharing>

Evidence link : <https://drive.google.com/file/d/1lJts5IbTGckQjdots0g3hQfuuV14MMMd/view?usp=sharing>

A model of one of the selected work sites for burying agricultural waste and converting it into compost.



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[3] Waste (WS)

[3.8] (WS.3) Organic waste treatment

Al-Nahrain University manages comprehensive and organized programs for the environmentally friendly treatment and processing of organic waste. These initiatives significantly enhance environmental sustainability and foster eco-responsibility among students, faculty, and administrative staff across all campus branches. The integrated system consists of the following key initiatives:

1. Campus Waste Sorting Infrastructure

In alignment with the university's approved food safety and waste management protocols, a comprehensive network of specialized organic waste sorting bins has been deployed alongside standard recycling containers across all colleges, departments, and facilities. Additionally, student clubs and cafeterias are equipped with designated organic waste containers. This dedicated infrastructure streamlines the segregation process at the source, making it easier for students and staff to separate food scraps and organic matter effectively.

2. Composting and Waste Disposal Program

The Agricultural Unit oversees a structured, multi-stage composting system designed to achieve a circular economy within the campus. This program operates through two primary pathways:

- **In-House Organic Fertilizer Production:** 100% of green plant residues, fallen leaves, and weeds are collected, finely chopped, and mixed with precise quantities of urea and local organic matter to optimize the nutrient balance. The compost piles are regularly irrigated via an integrated, tightly sealed underground pipe network. This decomposition process spans nine months, transforming raw waste into high-quality solid and liquid organic fertilizers, which are utilized entirely for landscaping and maintaining the campus green spaces.
- **Municipal Cooperation for External Disposal:** To ensure comprehensive waste management, Al-Nahrain University maintains a formal cooperation program with the Baghdad Municipality (Capital Municipality). Any surplus organic waste, or waste requiring specialized municipal processing, is safely transported outside the city to



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designated, environmentally compliant disposal sites.

3. Implementation, Oversight, and Periodic Committee

To guarantee the continuity and efficiency of these eco-friendly practices, Al-Nahrain University established a dedicated periodic committee to monitor the implementation of the organic waste disposal and decomposition program. This committee directly oversees the biological decomposition of both solid and liquid plant and animal matter, ensuring that the resulting organic fertilizers meet quality standards before being applied to the university's herbs, trees, and campus gardens.

4. Academic Integration and Awareness Campaigns

The Sustainable Development Unit, in active collaboration with student sustainability groups, drives environmental advocacy through two main pillars:

- **Workshops and Seminars:** The university regularly organizes interactive workshops, lectures, and seminars to educate the campus community on the principles of the circular economy, proper waste segregation, and the environmental benefits of organic waste management.
- **Research and Innovation:** Students are actively incentivized and encouraged to participate in applied research projects aimed at improving natural composting techniques, optimizing waste management workflows, and innovating sustainable environmental solutions.

Evidence link : <https://eco.nahrainuniv.edu.iq/posts/b1605f27-01fc-444f-b884-52e5ed96ccb0/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/f3b8b2ef-e77b-4c42-a266-5871153025fc/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/0576092b-f961-4c12-bfc5-e62d577d2286/>

Evidence link: <https://colmed-alnahrain.edu.iq/ar/news/4ceed8e5-bfca-46e9-be1f-ba099cbf245b>



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[3] Waste (WS)

[3.9] Total volume inorganic waste produced this year (tons)

In alignment with our institutional ecological goals, the total volume of inorganic non-toxic waste produced during the current academic year was systematically recorded at 240 tons, maintaining a consistent and controlled baseline relative to the previous year. This total volume is meticulously categorized into specific streams: 144 tons of paper and office operational waste, 48 tons of soft plastics, and 36 tons of hard plastics. The remaining 12 tons, designated under 'Etc.', comprehensively accounts for other non-toxic campus inorganic materials, specifically laboratory glass containers, aluminum and metal beverage cans, corrugated institutional cardboard packaging. Through robust waste-segregation policies, campus reduction campaigns, and strategic recycling partnerships, Al-Nahrain University has successfully achieved a waste reduction of 12 tons.

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non- toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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Waste Sorting and Recycling Campaign: The university launched a "Waste Sorting and Recycling" campaign in collaboration with the Sumer Organization for Public Health and Sustainable Development. This campaign included providing designated waste sorting containers throughout the university and organizing an awareness campaign to encourage students and staff to dispose of waste properly.

The university also made a donation to the Ministry of Industry and Minerals' school supplies factory in Baghdad to support recycling efforts and the conversion of waste into usable resources, in line with the Sustainable Development Goals related to responsible consumption and production and clean energy.

Link: <https://colmed-alnahrain.edu.iq/ar/news/4ceed8e5-bfca-46e9-be1f-ba099cbf245b>

Link: <https://colmed-alnahrain.edu.iq/ar/news/7b511a21-7b97-4d88-a226-e48d9bbfd9a6>



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[3] Waste (WS)

[3.10] Total volume inorganic waste produced Last Year (tons)

In alignment with our institutional ecological goals, the total volume of inorganic non-toxic waste produced during the current academic year was systematically recorded at 240 tons, maintaining a consistent and controlled baseline relative to the previous year. This total volume is meticulously categorized into specific streams: 144 tons of paper and office operational waste, 48 tons of soft plastics, and 36 tons of hard plastics. The remaining 12 tons, designated under 'Etc.', comprehensively accounts for other non-toxic campus inorganic materials, specifically laboratory glass containers, aluminum and metal beverage cans, corrugated institutional cardboard packaging. Through robust waste-segregation policies, campus reduction campaigns, and strategic recycling partnerships, Al-Nahrain University has successfully achieved a waste reduction of 12 tons.

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non- toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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[3] Waste (WS)

[3.11] Total volume inorganic waste treated this year (tons)

In alignment with our institutional ecological goals, the total volume of inorganic non-toxic waste produced during the current academic year was systematically recorded at 240 tons, maintaining a consistent and controlled baseline relative to the previous year. This total volume is meticulously categorized into specific streams: 144 tons of paper and office operational waste, 48 tons of soft plastics, and 36 tons of hard plastics. The remaining 12 tons, designated under 'Etc.', comprehensively accounts for other non-toxic campus inorganic materials, specifically laboratory glass containers, aluminum and metal beverage cans, corrugated institutional cardboard packaging. Through robust waste-segregation policies, campus reduction campaigns, and strategic recycling partnerships, Al-Nahrain University has successfully achieved a waste reduction of 12 tons

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
inorganic non-toxic	240	240	12	96		
- paper	144	144	7	50		
- soft plastic	48	48	3	40		
- hard plastic	36	36	2	6		
- etc	12	12				



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[3] Waste (WS)

[3.12] (WS.4) Inorganic waste treatment

Al-Nahrain University implements a comprehensive, multi-channel strategy for managing and processing inorganic waste across its campus, under the supervision of a dedicated steering committee. The university's strategic program focuses on waste sorting and advanced resource recovery through the following key initiatives:

Comprehensive Sorting:

The campus is equipped with specialized sorting bins for the separate collection of paper, plastic, and aluminum/metal beverage cans.

Electronic Waste Collection:

Al-Nahrain University has distributed collection bins specifically for electronic and electrical waste. This initiative ensures the isolation of old components, cables, and small devices.

Refurbishment and Reuse of Institutional Equipment:

In line with the principles of the circular economy, the university operates an active equipment maintenance and refurbishment program. Instead of disposal, damaged or outdated computers and laboratory electronic equipment are repaired and then reused in various university departments, significantly extending their operational lifespan.



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Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>



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[3] Waste (WS)

[3.13] Total volume toxic waste produced this year (tons)

Al-Nahrain University is committed to minimizing environmental risks through the meticulous management of toxic and hazardous waste generated from all campus facilities, medical clinics, and laboratories. This year, the total volume of toxic and hazardous waste reached 1.5 tons, comprising 0.5 tons of electronic waste and 1.0 tons of laboratory chemical waste. Thanks to targeted sustainability initiatives, the university successfully reduced toxic waste by 0.1 tons compared to last year, as detailed below:

Laboratory Chemicals: The implementation of mini-experiments, microlaboratory techniques, and digital simulations in practical examinations contributed to a reduction of 0.09 tons of chemical waste, which was then transported to the university's incinerator for safe disposal.

The final disposal is split into two streams: a portion is treated directly on campus using the university's approved incineration facilities, while the remaining hazardous chemical compounds are safely disposed of in formal collaboration with the Scientific Research Authority / Chemical Waste Treatment and Disposal Center.

Electronic Waste: By adopting preventative maintenance policies for computer labs and upgrading and maintaining hardware components instead of replacing them entirely, the amount of electronic waste decreased by 0.01 tons. The remaining 0.5 tons of old equipment are safely collected and delivered to university committees for dispatch to specialized recycling facilities.

Biological and Medical Waste: All potentially infectious biological waste generated by the university's medical and biological laboratories is sorted at the source using designated biohazardous waste containers. To ensure the highest safety standards, the university operates under a formal cooperation agreement with Immain Al-Kadhimain Medical City Hospital, where this waste is safely transported and treated using its specialized medical waste incineration facilities.



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Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.1			
- electronics	0.5	0.5	0.01			
- lab. Chemicals	1	1	0.04			
- etc						

Attached is a list of laboratory materials that are handled inside and outside the university using the waste incinerator.

(Chemical Name)	NO.
Oleic Acid	1
Acetic Acid	2
Acetonitrile	3
Aluminium Oxide	4
Aluminium Silicate	5
Aluminium Chloride	6

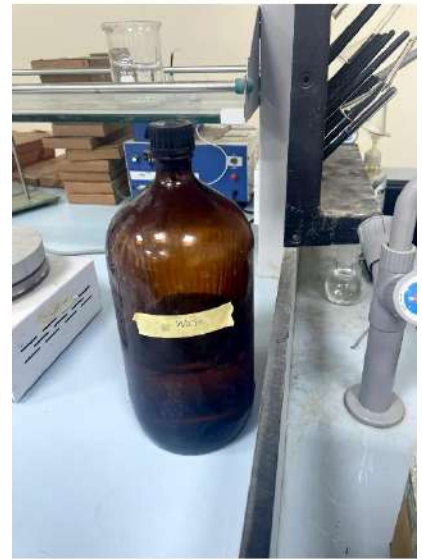


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(Chemical Name)	NO.
Ammonia	7
Barium Chloride	8
Benzene	9
Ethyl Methyl Ketone	10
Calcium Carbonate	11
Calcium Chloride	12
Chlorobenzene	13
Cyclohexane	14
DMSO	15
Diphenylamine	16
Ethylenediamine	17
Ethanol	18
Diethyl Ether	19
Ethyl Acetate	20
n-Heptane	21
Hydrochloric Acid	22



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[3] Waste (WS)

[3.14] Total volume toxic waste produced last year (tons)

Al-Nahrain University is committed to minimizing environmental risks through the meticulous management of toxic and hazardous waste generated from all campus facilities, medical clinics, and laboratories. This year, the total volume of toxic and hazardous waste reached 1.5 tons, comprising 0.5 tons of electronic waste and 1.0 tons of laboratory chemical waste, the university successfully reduced toxic waste by 0.02 tons compared to last year, as detailed below:

Laboratory Chemicals: The implementation of mini-experiments, microlaboratory techniques, and digital simulations in practical examinations contributed to a reduction of 0.04 tons of chemical waste, which was then transported to the university's incinerator for safe disposal.

The final disposal is split into two streams: a portion is treated directly on campus using the university's approved incineration facilities, while the remaining hazardous chemical compounds are safely disposed of in formal collaboration with the Scientific Research Authority / Chemical Waste Treatment and Disposal Center.

Electronic Waste: By adopting preventative maintenance policies for computer labs and upgrading and maintaining hardware components instead of replacing them entirely, the amount of electronic waste decreased by 0.01 tons. The remaining 0.5 tons of old equipment are safely collected and delivered to university committees for dispatch to specialized recycling facilities.

Biological and Medical Waste: All potentially infectious biological waste generated by the university's medical and biological laboratories is sorted at the source using designated biohazardous waste containers. To ensure the highest safety standards, the university operates under a formal cooperation agreement with Imamain Al-Kadhimain Medical City Hospital, where this waste is safely transported and treated using its specialized medical waste incineration facilities.



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Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.02			
- electronics	0.5	0.5	0.01			
- lab. Chemicals	1	1	0.04			
- etc						

Attached is a list of laboratory materials that are handled inside and outside the university using the waste incinerator.

(Chemical Name)	NO.
Oleic Acid	1
Acetic Acid	2
Acetonitrile	3
Aluminium Oxide	4
Aluminium Silicate	5



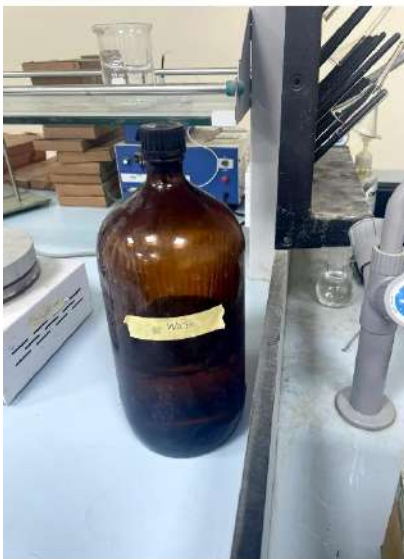
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(Chemical Name)	NO.
Aluminium Chloride	6
Ammonia	7
Barium Chloride	8
Benzene	9
Ethyl Methyl Ketone	10
Calcium Carbonate	11
Calcium Chloride	12
Chlorobenzene	13
Cyclohexane	14
DMSO	15
Diphenylamine	16
Ethylenediamine	17
Ethanol	18
Diethyl Ether	19
Ethyl Acetate	20
n-Heptane	21



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(Chemical Name)	NO.
Hydrochloric Acid	22





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[3] Waste (WS)

[3.15] Total volume toxic waste treated this year (tons)

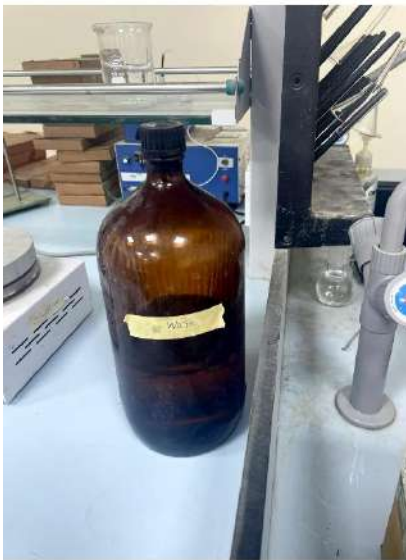
The university ensures 100% safe management and ultimate disposal of its 1.5 tons of generated toxic waste through strict, documented environmental pathways. For laboratory chemical waste (1.0 ton), the handling involves systematic on-campus dilution and containment, where a portion is processed via the university's approved internal incinerator, and the remaining strategic compounds are treated in official cooperation with the Scientific Research Authority / Chemical Waste Treatment and Disposal Center.

Furthermore, full bio-safety compliance is achieved for all biological and medical laboratory waste through a strategic disposal partnership with Imamain Al-Kadhmain Medical City Hospital, utilizing their specialized medical incineration facilities to guarantee zero environmental contamination. Concurrently, the 0.5 tons of electronic waste are fully managed through certified institutional channels for safe end-of-life processing.

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	1.5	1.5	0.02	0		
- electronics	0.5	0.5	0.01	0		
- lab. Chemicals	1	1	0.04	0		



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[3] Waste (WS)

[3.16] (WS.5) Toxic waste treatment

Al-Nahrain University implements a comprehensive operational strategy for toxic waste treatment, managed by a dedicated periodic committee and overseen by the Chemical, Biological, and Radiological Safety and Security Department.

Chemical Waste Treatment: Laboratory chemical waste goes through systemic on-campus inventories, dilution, and strict containment protocols. A portion of these packaged chemicals is safely processed using the university's approved internal thermal incinerator. To prevent secondary pollution, a specialized two-stage combustion process is utilized: the first stage incinerates the hazardous substances, while the second stage thermally treats the emitted gases to ensure all outputs are completely non-hazardous and environmentally friendly. Strategic and expired compounds are securely handed over to the Scientific Research Authority / Chemical Waste Treatment and Disposal Center under formal governmental protocols.

Biological & Medical Waste Treatment: The university enforces strict source-segregation using biohazard packaging for all infectious waste. Full biological safety is guaranteed via an active strategic partnership with Imamain Al-Kadhimain Medical City Hospital, utilizing their specialized clinical medical waste incinerators to achieve ultimate zero-risk disposal.

Electronic Waste Treatment: Older equipment and hardware devices are managed systematically through certified institutional committees to ensure that non-functional parts are transferred exclusively to specialized e-waste processing and management facilities.



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[3] Waste (WS)

[3.17] (WS.6) Sewage disposal

Al-Nahrain University enforces a safe and structured environmental protocol for sewage and wastewater management across all campus buildings, residential quarters, and laboratories.

The university's sewage disposal system operates by channeling all generated wastewater through a modern, integrated network of large underground pipes installed throughout the campus. This internal infrastructure is directly connected to the main municipal public sewage network managed and maintained by the Capital Municipality (Amanat Baghdad / General Directorate of Sewerage). This systematic connection ensures that all institutional wastewater is efficiently evacuated and transferred to centralized municipal wastewater treatment plants, preventing any localized environmental contamination or leakage within the university surroundings.





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[3] Waste (WS)

[3.18] Impact of Waste Management programs in supporting the Sustainable Development Goals (SDGs)

Al-Nahrain University actively aligns its comprehensive waste management programs with the United Nations Sustainable Development Goals (SDGs), demonstrating a firm institutional commitment to environmental stewardship, public health, and sustainable resource management. The tangible impacts of the university's waste initiatives directly support several key SDGs:

1. SDG 3: Good Health and Well-being & SDG 6: Clean Water and Sanitation
 - *Impact:* By establishing a formal cooperation agreement with Imamain Al-Kadhmain Medical City Hospital for the safe segregation and thermal incineration of biological/medical waste, the university eliminates bio-safety risks. Furthermore, treating chemical waste through protocol-driven dilution, containment, and specialized disposal via the Scientific Research Authority prevents hazardous chemicals from leaching into the soil or contaminating local water networks, ensuring a safe campus and community environment.
2. SDG 12: Responsible Consumption and Production & SDG 9: Industry, Innovation, and Infrastructure
 - Impact:* The university's strategic transition toward microscale laboratory techniques, mini-experiments, and digital exam simulations successfully reduced chemical waste outputs by 0.02 tons. Additionally, adopting strict preventative maintenance and hardware upgrade policies for computer laboratories reduced e-waste by 0.01 tons, prioritizing asset longevity and resource conservation over commercial recycling.
 - Institutional Digital Transformation:
Al-Nahrain University has accelerated its transition to a paperless campus by implementing integrated electronic management systems, including the Student Information System (SIS), the Bologna Process Digital Platform, and the HEPIQ and MOODLE systems. By automating academic registration, assessment, archiving, and official ministerial correspondence, the university has significantly reduced paper consumption and associated chemical printing waste. Furthermore, this advanced digital infrastructure enhances server



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efficiency and data management, aligning with technological innovation and resource optimization.

3. SDG 11: Sustainable Cities and Communities & SDG 17: Partnerships for the Goals

- *Impact:* Al-Nahrain University does not operate in isolation; its waste management success relies heavily on strong institutional partnerships. Connecting the campus-wide sewage infrastructure to the municipal network of the Capital Municipality (Amanat Baghdad) and collaborating with national scientific and medical entities exemplifies how institutional partnerships build cleaner, safer, and more sustainable urban communities.

4. SDG 4: Quality Education

-*Impact:* Integrating these active waste tracking mechanisms and safety standards into academic curricula enhances the practical and environmental awareness of university students, preparing them to lead sustainable practices in their future careers. The links below illustrate the university campaigns undertaken by students.

Evidence link : <https://eco.nahrainuniv.edu.iq/posts/b1605f27-01fc-444f-b884-52e5ed96ccb0/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/f3b8b2ef-e77b-4c42-a266-5871153025fc/>

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/0576092b-f961-4c12-bfc5-e62d577d2286/>

Evidence link:

<https://eco.nahrainuniv.edu.iq/posts/c82e1853-568b-4fcf-b21c-14a34fc095ab/>



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Water (WR)



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[4] Water (WR)

[4.1] (WR.1) Total area on campus for water absorption besides forest and planted vegetation (please provide total area in square meters)



Total area on campus for water absorption besides the forest and planted vegetation



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The university continuously prioritizes the expansion of its green infrastructure to foster an eco-friendly academic environment. The total area of the university campus stands at 647,500 m² equivalent to 259 Iraqi Donums. Out of this total area, the total ground vegetation and campus green spaces encompass an area of 423,300 m².

This means that 65.3% of the total campus area is allocated to plants and open green spaces, both cultivated and uncultivated. This high percentage underscores the university's strategic commitment to mitigating the effects of climate change, preserving biodiversity, and providing a sustainable and healthy ecosystem for all members of the university community.

As shown in the attached documents, the official university land title deed details the total area in Iraqi dunams.

Total water absorption area: 423300m²

Total Area: 647.500 m²

Percentage area: 65.3%

Evidence:https://drive.google.com/file/d/12Hj151xTAiWwd5K_xNxufa9aSP_Cn43T/view?usp=sharing

Evidence: <https://drive.google.com/file/d/1fBpjaAjJUc5p9cMZsW-rBTrDEsvMHGbo/view?usp=sharing>



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[4] Water (WR)

[4.2] (WR.2) Water conservation program and implementation

University and Location	Average Rainfall (mm/hr)	Water Flow Rate (liters/hr)	Number of Reservoirs	Capacity of Reservoirs (liters)	Number of Lakes	Total area of Lakes m ²	Capacity of Lakes (liters)	Number of Recharging Pits	Capacity of Recharging Pits (liters)
Al-Nahrain University; Jadriya Campus, Baghdad, Iraq	~150 mm/year <i>(Standard for Baghdad)</i>	25000	1	35,000 Liters	1	482	964,000	1	15000
Al-Nahrain University; Al-Kadhimiya Campus, Baghdad, Iraq	~150 mm/year <i>(Standard for Baghdad)</i>	5000	1	20,000 Liters	0				

Al-Nahrain University is firmly committed to sustainable water management through the implementation of comprehensive rainwater harvesting and conservation programs. The university has designed an integrated system to maximize the use of natural rainwater and reduce reliance on traditional municipal water sources. To achieve this, campus buildings have been equipped with drainage infrastructure dedicated exclusively to collecting clean rainwater from rooftops. This collected water is systematically channeled through a network of surface drainage pathways and specialized waterways distributed throughout the campus. The collected rainwater is directed to two main storage facilities: a dedicated, large-capacity storage tank and an engineered lake within the campus. This storage infrastructure ensures a sustainable and continuous water supply year-round. The stored water is efficiently reused in environmentally friendly processes, particularly for the strategic irrigation of green spaces, lawns, and trees on campus, as well as for general maintenance and public facilities. This proactive approach underscores the university's commitment to enhancing its environmental infrastructure and building a climate-resilient campus.



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Al-Nahrain University has several water conservation programs:

- 1- Program Overview: Al-Nahrain University has several water conservation programs. Rainwater Harvesting Tank: Al-Nahrain University exploits rainwater and uses it for irrigation and campus utility purposes by providing a large tank to store rainwater and distribute it through water channels on the campus for use at any time during the year.



Tank to store rainwater



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- 2- The university buildings feature a separate drainage system for clean rainwater. This allows rainwater to be collected from the rooftops of the university buildings and then drained into local ponds and canals surrounding the buildings to irrigate the plants on the campus.



Distribution Network: Rainwater is distributed through dedicated water channels on the campus.



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3- Another system implemented is the use of surface water drainage channels, which direct water to trees and vegetation, thus utilizing rainwater free of charge on the Al-Nahrain University campus.





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4- The campus lake was engineered specifically to collect rainwater and excess runoff, allowing the university to reuse it to irrigate green spaces and



significantly reduce reliance on traditional water sources. We ensured that the project was implemented in accordance with safety and sustainability standards, ensuring it would be a permanent source of support for the university's environmental infrastructure.

Evidence link : <https://nahrainuniv.edu.iq/ar/node/27219>\

The university has established and enacted an official, institutionalized Water Management Policy. This policy provides a robust regulatory framework that governs water consumption, conservation protocols, and rainwater recycling initiatives across all campus facilities.

Evidence link : <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>



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[4] Water (WR)

[4.3] (WR.3) Water recycling program implementation

Al-Nahrain University has implemented a water recycling and treatment program to enhance sustainable water management practices across the campus. The system is designed to reduce freshwater consumption by collecting, filtering, and reusing water for non-potable purposes.

The recycling process includes water collection, filtration, treatment, and storage in dedicated tanks before reuse. Treated water is primarily utilized for landscape irrigation, green areas maintenance, and vehicle washing within the university campus. The system contributes to minimizing water waste and improving the efficiency of water resource utilization.

The treatment infrastructure consists of:

- Water filtration units for removing impurities and suspended particles.
- Storage tanks designated for treated water.
- Distribution connections for irrigation and service applications.

In addition to the recycling system, the university has adopted several water conservation measures, including:

- Installation of water-saving faucets and fixtures.
- Periodic maintenance of water networks to reduce leakage and waste.
- Awareness campaigns and workshops for students, staff, and campus residents regarding sustainable water use practices.



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Al-Nahrain University has a policy for water use, treatment, and the use of energy-saving faucets, in addition to conducting workshops to raise awareness among campus residents.

Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>



Filters for water treatment



Tank for water treatment



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[4] Water (WR)

[4.4] (WR.4) Water efficient appliance usage

Al-Nahrain University implements a comprehensive water conservation strategy through the use of water-efficient sanitary appliances and sustainable water management practices across campus facilities.

The university has installed several water-saving systems, including:

- Automatic sensor-controlled sanitary devices
- Low-flow toilets and faucets
- Water-efficient plumbing fixtures
- Treated water reuse systems
- Rainwater utilization practices

These measures significantly reduce potable water consumption and enhance the efficient use of water resources within the university campus.

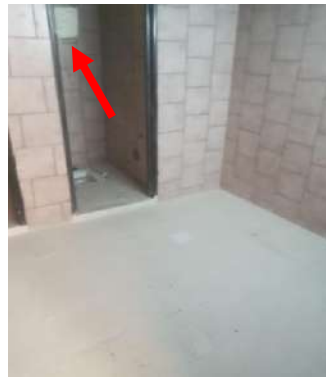
In addition, the university continuously promotes sustainable water management policies to support environmental protection and improve resource efficiency in accordance with international sustainability standards.

Al-Nahrain University uses water-saving measures in sanitation devices such as automatic control devices, low-flow toilets, and faucets with low floats to reduce



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the consumption of used water in addition to the use of treated water and rainwater to reduce the consumption of clean water.





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[4] Water (WR)

[4.5] (WR.5) Consumption of treated water

Al-Nahrain University utilizes a reverse osmosis (RO) water purification system operating on both direct and alternating current. The system is powered by solar energy in addition to the national electricity supply, supporting sustainable and energy-efficient water treatment practices.

The university also employs advanced filtration systems to treat and purify water for reuse across campus facilities. As a result, more than 75% of the treated water is reused and consumed by students and university staff.

In addition, the university has implemented policies related to water consumption, water treatment, and the use of water-saving faucets. Awareness workshops and sustainability campaigns are regularly organized to encourage responsible water use among campus residents.

The university uses a reverse osmosis water purification system that works on direct and alternating current and works on solar energy and national electricity.

Filters are also used to treat and purify water for reuse, thus the university consumes more than 75% of the treated water and is consumed by students and staff.





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Al-Nahrain University has a policy for water use, treatment, and the use of energy-saving faucets, in addition to conducting workshops to raise awareness among campus residents.

Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>





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[4] Water (WR)

[4.6] (WR.6) Water pollution control in campus area

Al-Nahrain University implements a strict policy dedicated to preventing and mitigating water pollution across the campus area. The university is committed to maintaining water safety by tracking potential pollutants, managing laboratory waste effectively, and ensuring all discharge complies with environmental sustainability standards.

Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>

2. Monitoring, Sampling, and Separation Operations To maintain a safe and clean water system, the university conducts structured laboratory operations managed by specialized medical and scientific staff: Periodic Water Testing: Water samples are collected and analyzed periodically from various campus facilities to verify that the water remains free from harmful pollutants and contaminants. Pollutant Separation: Advanced laboratory procedures are carried out within the university's specialized labs to isolate and eliminate hazardous substances before any wastewater discharge occurs.

Additional evidence link: https://brc.nahrainuniv.edu.iq/?page_id=5032&lang=en

Additional evidence link: https://brc.nahrainuniv.edu.iq/?page_id=5203&lang=en





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[4] Water (WR)

[4.7] (WR.7) Water pollution control in campus area

Al-Nahrain University establishes a comprehensive framework for water sustainability, directly mapping its infrastructural programs and ecosystem management to the United Nations Sustainable Development Goals (SDGs). The university actively leverages its green infrastructure, advanced treatment capabilities, and smart appliances to foster a climate-resilient and eco-friendly academic environment.

The matrix below details how the specific water management programs implemented across Al-Nahrain University campus support global sustainability goals:

Campus Water Program & Infrastructure	Primary SDG Supported	Impact & Institutional Implementation Details
Maximizing Green Spaces & Water Absorption Area	SDG 15: Life on Land SDG 13: Climate Action	The university allocates 423,300 \$m ² \$ (65.3% of the total campus area) for ground vegetation and green spaces. This significant green absorption footprint mitigates climate impact, preserves regional biodiversity, and facilitates natural groundwater recharge.



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<p>Rainwater Harvesting Infrastructure & Engineered Lake</p>	<p>SDG 6: Clean Water & Sanitation</p> <p>SDG 11: Sustainable Cities & Communities</p>	<p>Campus buildings utilize dedicated rooftop drainage networks to capture precipitation. This runoff is systematically directed via surface channels into an engineered campus lake (capacity of 964,000 liters) to mitigate urban flooding and provide a sustainable water reservoir.</p>
<p>Water Recycling & Greywater Reuse Systems</p>	<p>SDG 6: Clean Water & Sanitation</p> <p>SDG 12: Responsible Consumption</p>	<p>Implementation of specialized water filtration units and storage tanks to harvest and treat service greywater. The recycled water is securely reused for landscape irrigation, green area maintenance, and vehicle washing, substantially minimizing freshwater waste.</p>
<p>Smart Water-Efficient</p>	<p>SDG 12: Responsible</p>	<p>Standardized integration of water-saving technologies across university facilities, including automatic sensor-controlled</p>



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Appliances Deployment	Consumption & Production	devices, low-flow toilets, and fixtures to reduce baseline daily consumption.
Solar-Powered Reverse Osmosis (RO) Purification	SDG 6: Clean Water & Sanitation SDG 7: Affordable & Clean Energy	Operation of an advanced RO water purification system powered sustainably via solar energy panels integrated with the national grid. This energy-efficient network safely supplies treated potable water to over 75% of students and staff.
Laboratory Pollution Control & Water Safety Checks	SDG 3: Good Health & Well-being SDG 14: Life Below Water	Medical and specialized scientific staff carry out rigorous laboratory operations to isolate and separate hazardous contaminants. Water samples are collected and analyzed periodically to ensure zero chemical or toxic discharge into the surrounding ecosystem.



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Sustainability Workshops & Awareness Campaigns	SDG 4: Quality Education SDG 17: Partnerships for the Goals	Continuous organization of specialized workshops and environmental campaigns to educate campus residents, students, and faculty on responsible water usage and conservation.
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Evidence : <https://www.nahrainuniv.edu.iq/ar/node/27219>

Evidence: <https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>



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Transportation (TR)



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[5] Transportation (TR)

[5.1] Number of cars actively used and managed by University

44 cars

[5.2] Number of cars entering the university daily

485 cars

[5.3] Number of motorcycles entering the university daily

1 motorcycles



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[5] Transportation (TR)

[5.4] (TR.1) The total number of vehicles (cars and motorcycles) divided by total campus population

No.	Vehicle	Total Number
1	Car managed by the university	44
2	Cars entering the university	485
3	Motorcycles entering the university	1
	Total	530

$$\begin{aligned} \text{Formula: } & (5.1+5.2+5.3) / (1.11+ 1.13) = \\ & = 44+485+1/12521 \\ & = 530/12521 \\ & = 0.042 \end{aligned}$$

* Total Car managed by the university = 27 ,and total shuttles managed by the university =17

$$\begin{aligned} \text{* Total campus population} & = 1.11+1.13 \\ & = 8077+4444 \\ & = 12521 \end{aligned}$$



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[5] Transportation (TR)

[5.5] (TR.2) Shuttle service

1- Al-Nahrain University provides dedicated shuttle buses consisting of (17) buses to transport employees from their residential areas to the university campus.



N o.	Driver Name	License Plate	Vehicle Type	Route Name	Route Path	Driver's Residence & Distance
1	Qasim Saleh Mehdi	99595	Coaster Bus	Al-Mansour	Hay Daragh - Hay Al-Arabi - Al-Liqa Square - Al-Mansour - Al-Arba Shawari' (Four Streets) - Al-Jadriya	Hay Daragh (50 km)
2	Adil Jassim Katid	73365	Karonti Bus	Al-Dora Street 60	Nuwab Al-Dubat - Baghdad Al-Jadida - Muhammad Al-Qasim - Nuwab Al-Dubat - Street 60	Al-Amin - Nuwab Al-Dubat (120 km)
3	Abdul Rahman	99598	45-Seat er	Al-Hurriya	Hay Al-Turath - Airport Road - Al-Nafaq Expressway - Al-Hurriya -	Hay Al-Furat



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	Mahmo ud Salman		Hyunda i Bus		Hay Al-Jamia - Hay Hattin - Airport Road - Al-Jadriya	(120 km)
4	Saad Hassan Ahmed	82072	Foton Bus	Al-Maalif	Al-Bouaitha - Darwish Intersection - Al-Badala Street - Al-Rai - Al-Maalif	Al-Boua itha (130 km)
5	Ammar Asaad Ali	19872	Coaster Bus	Al-Saydiy a	Al-Bouaitha - Al-Waleed Center - Al-Saydiya - Al-Jadriya	Al-Boua itha (55 km)
6	Sadda m Hamou d Dai Salem	71942	Karonti Bus	Al-Dora	Hay Dijla - Al-Moalemin - Al-Mahdiya - Al-Jadriya	Al-Dora / Hay Dijla (45 km)
7	Wisam Ali Ne'ma	71943	Karonti Bus	Al-Baladi yat	Hay Ur - Al-Qanat (The Canal) - Al-Rubaye - Maysaloon - Karrada Dakhil - Al-Jadriya - Al-Baladiyat	Hay Ur (90 km)
	Amir Hatim Zaidan	72052	Karonti Bus	Al-Khadr aa	Al-Amiriya - Al-Khadraa - Al-Amiriya Expressway - Airport Road - Al-Jadriya	Al-Amiri ya (20 km)
9	Omar Ahmed Zaidan	72081	Coaster Bus	Al-Bouait ha	Al-Bouaitha - Al-Omal Complex - Al-Sultan Complex - Hay Tunis - Al-Amal Complex - Al-Jadriya	Al-Boua itha (43 km)
10	Louay Hamid	4798	Nissan Bus	Al-Amiriy a	Al-Dawanem - Hay Al-Amil Expressway - Al-Amiriya - Airport Expressway - Airport	Al-Dawa nem (20 km)
11	Faris Mahmo ud Salman	73511	Karonti Bus	Al-Yarmo uk	Hay Al-Husseini - Hay Al-Jihad - Al-Dakhiliya - Al-Qadisiya - Al-Jadriya	Hay Al-Huss ein (40 km)
12	Raid Mushta q	73366	Karonti Bus	Al-Shaab	Palestine Street - Al-Muwal Square - Al-Banook - Al-Shaab - Palestine - Al-Sihha - Al-Qanat - Zayouna -	Palestin e Street /



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					Al-Wathiq Square - Karrada Dakhil - Al-Jadriya	Al-Mah diya
13	Saif Saadi Sobhi	73512	Karonti Bus	Hay Al-Amil	Al-Shorta Al-Raba'a - Al-Ilam Intersection - Hay Al-Amil - Al-Jadriya - Al-Malhania	Al-Short a Al-Raba' a (50 km)
14	Oday Hamid Ali	72081	Karonti Bus	Al-Shorta Al-Raba'a	Al-Dawanem - Al-Shorta Al-Raba'a - Al-Shuhada - Al-Sina'a Street - Al-Bayaa Intersection - Al-Jadriya	Al-Dawa nem (80 km)
15	Adnan Sadoun	71944	Karonti Bus	Al-Mahm oudiya	Al-Hawasha - Al-Mahdiya - Corniche - Main Street - Al-Mahmoudiya - Al-Bouaitha - Al-Jadriya - Court Intersection	Al-Hawa sha (130 km)
16	Mounir Ali Zaidan	72084	Karonti Bus	Hay Al-Jihad	Al-Bouaitha - Baghdad Al-Jadida Expressway - Darwish Intersection - Hay Al-Jihad - Al-Jadriya - Hay Al-Salam Apartments	Al-Boua itha
17	Ammar Hassou n Faza'	71945	Karonti Bus	Abu Dshir	Al-Bouaitha - Al-Kafa'at - Abu Dshir - Al-Jadriya	Al-Boua itha (106 km)

2- The university also has small government vehicles to facilitate daily tasks and activities both on and off campus. The number of these vehicles is (27).





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[5] Transportation (TR)

[5.6] Number of shuttles operated in your university

17

[5.7] Average number of passengers of each shuttle

24

[5.8] Total trips of shuttle services each day

2



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[5] Transportation (TR)

[5.9] (TR.3) Zero Emission Vehicles (ZEV) policy on campus

Al-Nahrain University is seeking to purchase hybrid vehicles in agreement with car manufacturers such as Toyota, which will contribute to reducing harmful emissions on campus. Recently, campus residents, staff, and faculty members were encouraged to purchase Japanese and Korean hybrid vehicles to reduce gasoline emissions and preserve the campus environment. The university also utilizes a green transportation system on campus by providing university-owned bicycles (18) for students and staff to use for transportation between colleges.





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Evidence:

<https://sustaina.nahrainuniv.edu.iq/university-policies-on-sustainable-development/>

No	Zero Emission Vehicle Type	Total
1	Bicycle	18
2	Free Electric Vehicle	11
3	hybrid	235



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[5] Transportation (TR)

[5.10] Average number of Zero Emission Vehicles (e.g. bicycles, cano, snowboard, electric car, etc.) on campus per day

Average number of Zero Emission Vehicles

No	Zero Emission Vehicle Type	Total
1	Bicycle	18
2	Free Electric Vehicle	11
3	hybrid	235

$$(18+11+235)/3$$

$$264/3= 88$$



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[5] Transportation (TR)

[5.11] (TR.4) The total number of Zero Emission Vehicles (ZEV) divided by total campus population.

Formula: (5.10)/ (1.11+ 1.13)

$$= (18+11+235)/ 12521$$

$$= 264/12521$$

$$= 0.002$$



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[5] Transportation (TR)

[5.12] Ratio of ground parking area to total campus area (m2)

Total ground parking area = 16572.29 m²



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[5] Transportation (TR)

[5.13] (TR.5) Ratio of parking area to total campus area

$$\begin{aligned} \text{Formula: } & ((5.12/1.5) \times 100\%) \\ & = ((16572.29 \text{ sq m} / 647,500 \text{ m sq}) * 100\%) \\ & = 0.02 \end{aligned}$$



Southern campus in Al-nahrain University
Total area=11544 sq m

Northern campus in Al-nahrain University
Total area=5028.29 sq m



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[5] Transportation (TR)

[5.14] (TR.6) Program to limit or reduce parking area on campus over the last three years

Electronic car garage



- 1- Al-Nahrain University uses an electronic parking garage using electronic cards to reduce the parking area.
- 2- Designating specific student parking areas.
- 3- Encourage campus residents to walk.

Al-Nahrain University also created a new electronic park to



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limit the parking space on campus, as shown in the picture below.





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[5] Transportation (TR)

[5.15] (TR.7) Number of initiatives to decrease private vehicles on campus

Al-Nahrain University is working to reduce the number of vehicles on campus by implementing initiatives, including:

1. Shuttle/bus campus inside campus
3. Walking
4. Car sharing
5. Free to rent bicycle on campus
6. motorcycles





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[5] Transportation (TR)

[5.16] (TR.8) Pedestrian path on campus

Al-Nahrain University provides pedestrian paths with paths for people with disabilities and night lighting for campus residents.





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[5] Transportation (TR)

[5.17] Approximate daily travel distance of a vehicle inside campus only (in Kilometers)

Daily travel distance of a vehicle inside campus = 2 Kilometers



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[5] Transportation (TR)

[5.18] Impact of Transportation programs in supporting the Sustainable Development Goals (SDGs).

- 1- Development of integrated pedestrian pathways and dedicated bicycle lanes across campus to encourage non-motorized transport.
- 2- Operation of low-emission campus shuttle buses, including electric or hybrid vehicles, to reduce reliance on personal cars.
- 3- Provision of bicycle-sharing programs and supporting infrastructure (parking racks, lockers, repair stations) to enhance cycling convenience.
- 4- Implementation of a vehicle restriction policy, including license plate control or limited parking permits for students and staff.
- 5- Awareness campaigns and mobility education initiatives promoting safe, healthy, and sustainable transport behavior.
- 6- Real-time digital tracking tools to monitor shuttle schedules, optimize routes, and support user convenience (The path of the Al Shaab area line, starting from the university in the Al Jadriya area, reaching the Al Shaab area).





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These efforts directly support **SDGs 3, 4, 7, 11, 12, 13** and contribute indirectly to others, including:

- **SDG 3** – Reducing exposure to air pollution and promoting healthy, active lifestyles
- **SDG 4** – Ensuring inclusive access to education through safe and reliable campus transport
- **SDG 7** – Promoting the use of clean energy in transportation
- **SDG 11** – Building inclusive, safe, and sustainable urban mobility systems
- **SDG 12** – Encouraging responsible use of resources through shared mobility
- **SDG 13** – Lowering carbon emissions through low-impact transportation



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Education & Research (ED)



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[6] Education & Research (ED)

[6.1] Number of courses/subjects related to sustainability offered

Number of courses (2025) = 225

Evidence Link: <https://sustaina.nahrainuniv.edu.iq/wp-content/uploads/2025/10/Environmental-Sustainability-Curricula-for-2025.pdf>



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[6] Education & Research (ED)

[6.2] Total number of courses/subjects offered

Total number=520

Number of colleges	Courses
medicine	14
Law	83
engineering	89
Sciences	45
political science	19
Information engineering	25
business Economic	24
Higher Institute for Infertility Diagnosis and ARTs	24
Biotechnology	96
Pharmacy	78
Higher Institute of Forensic Sciences	23
Total	520



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[6] Education & Research (ED)

[6.3] Total number of study program related to sustainability offered

No.	Colleges	Number of program
1	medicine	Bachelor of Medicine and Surgery
2	Law	Bachelor of Law
		Master of Law
		PHD of Law
3	Pharmacy	Bachelors of Pharmacy
4	Engineering	Bachelors of Computer Engineering
		Bachelors of Mechanical Engineering
		Bachelors of Chemical Engineering
		Bachelors of Laser and Optoelectronics
		Bachelors of Artificial Intelligence and Robotics Engineering
		Bachelors Electronics and Communication
		Bachelors Civil Engineering
5	Sciences	Bachelor of Physics
		Master of Chemistry
		PHD of Chemistry
6	Biotechnology	Bachelor of plant Biotechnology



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		Bachelor of Medical Biotechnology
7	political science	PHD of Political System and Public Policies
		Master of Political System and Public Policies
		PHD of International Politics
		Master of International Politics
		PHD of International Economic Relations
8	Information engineering	Bachelors of Information and Communications Engineering
		Bachelors of Computer Network Engineering
		Bachelors of Cyber security Engineering
		Bachelors of Automation and Artificial Intelligence Engineering
9	business Economic	BACHELOR OF ECONOMICS, INVESTMENT AND BUSINESS MANAGEMENT
		Bachelor's degree in the Economics of Banking Management
		Bachelor of Accounting and Financial Control



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10	Higher Institute for Infertility Diagnosis and ARTs	Master of Applied Physiology
		PHD of Applied Physiology
		Master of Clinical Reproductive Physiology
		PHD of Clinical Reproductive Physiology



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[6] Education & Research (ED)

[6.4] (ED.1) The ratio of sustainability courses to total courses/subjects

The ratio= 43 %



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[6] Education & Research (ED)

[6.5] Total research funds dedicated to sustainability research (in US Dollars) (average per annum over the last 3 years).

Total research fund dedicated to sustainability research in 2023 =
29084 US Dollars

Total research fund dedicated to sustainability research in 2024 =
29824 US Dollars

Total research fund dedicated to sustainability research in 2025 =
30564 US Dollars

Total = 89472

The average annum last 3 years of research fund dedicated to
sustainability research =29824 US Dollars



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[6] Education & Research (ED)

[6.6] Total research funds (in US Dollars) (average per annum over the last 3 years).

Total research fund in 2023 = 38778 US Dollars

Total research fund in 2024 = 39766 US Dollars

Total research fund in 2025 = 40260 US Dollars

Total = 118804

The average annum last 3 years of research fund = 39601 US Dollars



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[6] Education & Research (ED)

[6.7] (ED.2) The ratio of sustainability research funding to total research funding

$$\begin{aligned} (6.5 / 6.6) \times 100\% &= 29824 / 39601 * 100\% \\ &= 75\% \end{aligned}$$



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[6] Education & Research (ED)

[6.8] Number of lecturers and researchers on campus in one year period

No.	College Name	Civil Servant Lecturers	Permanent Non-Civil Servant Lecturers	Contract Lecturers (NIDK)	Total Lecturers
1.	College of Law	93	13	0	106
2.	College of Medicine	216	5	1	222
3.	College of Engineering	360	22	3	385
4.	College of Science	321	2	1	324
5.	College of Political Science	204	2	4	210
6.	College of Information Engineering	115	5	0	120
7.	College of Business Economics	79	7	0	86
8.	College of Biotechnology	84	0	0	84
9.	College of Pharmacy	66	1	0	67
10.	Higher Institute for	49	4	0	53



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	Infertility Diagnosis				
11.	Institute of Forensic Sciences	71	0	0	71
12.	Al-Nahrain Research Center for Renewable Energy	25	0	0	25
13.	Biotechnology Research Center	61	0	0	61
14.	University Presidency Lecturer	190	0	0	190
	Total	1934	61	9	2004



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[6] Education & Research (ED)

[6.9] Number of scholarly publications on sustainability published

The screenshot shows a Google Scholar search page with the following details:

- Search query: al nahrain university & green & sustainability
- Results: About 1,010 results (0.08 sec)
- Sort by: relevance
- Filters: Any time, Since 2026, Since 2025, Since 2022, Custom range...
- Article 1: "The Impact of Leadership Capabilities on Achieving Sustainable Development: An Analytical Survey Study at Al-Nahrain University" by Al-Jassam, AM Saleh, Bt Sadig. Published in Sustainability, CSR, and Governance, 2020. Springer. Focuses on sustainable development practices at Al-Nahrain University.
- Article 2: "Relationship between institutional performance quality and achieving sustainable development indicators: an analytical survey research/al-nahrain University" by Al-Jassam. Published in researchgate.net. Focuses on the relationship between sectors (efficiency, effectiveness, work success, budget) and dimensions of development (environmental, green economy).
- Article 3: "Role of environmental corporate social responsibility and green information technology in the environmental performance of the UAE manufacturing industry" by M. Nuseir, A. Aljumah, Z. Husain. Published in Journal of Business & ..., 2020. Emerald.com. Focuses on green IT resources and stakeholder-driven environmental responsibility.
- Article 4: "I am responsible too: promoting green entrepreneurial behaviour through university entrepreneurial support in unstable environments—a female perspective from Iraq" by MAK Saleh, HA Patrick, A. Sultan. Published in Journal of Enterprising ..., 2026. Emerald.com. Focuses on green entrepreneurial behaviour and university support.

Number of events **scholarly publications on sustainability** in the academic year 2025.

A total of one year is 1010 **publications**.

Evidence link :

https://scholar.google.com/scholar?as_ylo=2025&q=al+nahrain+university+%26+green+%26+sustainability&hl=en&as_sdt=0,5



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[6] Education & Research (ED)

[6.10] (ED.3) Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period

$$\begin{aligned} \text{Formula: } (6.9/6.8) &= \\ 1010/2004 &= \\ 0.50 & \end{aligned}$$



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[6] Education & Research (ED)

[6.11] (ED.4) Number of events related to sustainability. (average annually for the past 3 years)

Total number= 678 events





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Number of events related to environment and sustainability hosted or organized by the University in the academic year 2023-2025

Total number of sustainability/environment related events in:

2023 : 74

2024 : 216

2025 : 388

A total average per annum over the last 3 years of **226 events** .



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[6] Education & Research (ED)

[6.12] (ED.5) Number of activities organized by student organizations related to sustainability per year

Number of student organizations related to sustainability =9

To activate the pivotal role of students in supporting sustainable development initiatives, and as part of the requirements for achieving the Sustainable Development Goals, an environmentally friendly student team was formed in the university's colleges. This team comprises a select group of student volunteers and operates under the direct supervision of the Student Activities Department.



This team works in close coordination with the colleges' Sustainable Development Committees to adopt and document environmental initiatives and raise practical awareness of the importance of creating a sustainable and clean campus.

- 1- The campaign to plant a million trees



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Al-Nahrain University launches continuous campaigns that include agricultural activities with the participation of university students who have an active role in these campaigns. These campaigns include planting a group of seedlings and roses.

Link: <https://colmed-alnahrain.edu.iq/ar/news/34a2ee02-7968-4e56-a6bb-b744fa7d3a5a>

Link:

<https://sustainable.eng.nahrainuniv.edu.iq/ar/%d8%ac%d8%a7%d9%85%d8%b9%d8%a9-%d8%a7%d9%84%d9%86%d9%87%d8%b1%d9%8a%d9%86-%d8%aa%d8%b7%d9%84%d9%82-%d8%ad%d9%85%d9%84%d8%a9-%d8%aa%d8%b4%d8%ac%d9%8a%d8%b1-%d9%88%d8%a7%d8%b3%d8%b9%d8%a9-%d8%aa%d8%b2/>



2- Organized agricultural awareness campaigns

Al-Nahrain University participates in organized awareness campaigns, including planting seedlings and flowers on campus, with the aim of spreading environmental and community service awareness among students. In addition, the university holds student festivals that include the launch of several student campaigns and bazaars.

Link: <https://colmed-alnahrain.edu.iq/ar/news/9d70174b-9ddc-473c-82eb-a11f323d3f12>



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3- Dakhka Organization is a support group that calls for equality and support for students with low incomes Organized annually to support students, meet their needs and contribute to building a green campus in cooperation with the President of Al-Nahrain University.

link:https://web.facebook.com/grouplaugh/?_rdc=1&_rdr

link:<https://nahrainuniv.edu.iq/ar/node/4999>

4- The Nahrain Blowers Organization is an annual organization led by Al-Nahrain University students to welcome a new academic year by launching a large number of blowers, where a large part of this festival goes as humanitarian aid.

Evidence

link:

<https://www.facebook.com/Al.Nahrain.U/videos/%D9%85%D9%87%D8%B1%D8%AC%D8%A7%D9%86-%D9%86%D9%81%D8%A7%D8%AE%D8%A7%D8%AA->





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[%D9%86%D9%87%D8%B1%D9%8A%D9%86%D9%8A%D8%A9-%D9%A2%D9%A0%D9%A2%D9%A5/903410349026221/](https://nahrainuniv.edu.iq/903410349026221/)

- 5- A student organization consisting of representatives from all faculties of Al-Nahrain University participates in internal and external activities related to agriculture, industry, art and annual sports competitions with government ministries and universities.
- 6- (Open Day), which is an entertainment day every year, interspersed with extracurricular events and activities for all university students for morning and evening studies. The events presented by the university students varied between entertainment competitions, drawing and painting displays, in addition to popular food competitions, planting and landscaping the college gardens and yards, and cleaning and maintaining the college corridors.

Evidence link:

<https://eco.nahrainuniv.edu.iq/posts/f3b8b2ef-e77b-4c42-a266-5871153025fc/>

- 7- The second annual festival of the College of Business Economics on environmental sustainability, where the College of Business Economics, in cooperation with the Nakhla Watan Women’s Team for Culture and Sustainable Development, organized a bicycle competition in the gardens of Al-Nahrain University with the participation of university students. Prizes were presented to the first three winners in the competition, and all participants were honored in appreciation and recognition of their efforts in the competition.

Evidence link: <https://eco.nahrainuniv.edu.iq/posts/1d5e50d0-9bdf-41a2-9585-84747f25b269/>



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8- A health awareness campaign for children, titled "Youth of the Future," was held at Imamain Al-Kadhimain Hospital. A group of medical students from various academic years participated, distributing brochures and simplified educational materials to children to promote healthy behaviors. They also presented gifts to hospitalized children and those seen in the emergency room.

Evidence link: <https://colmed-alnahrain.edu.iq/ar/news/1425ab54-0f68-4dcc-a87b-6f27caef3691>

9- The annual breast cancer awareness campaign, under the slogan "Because You Matter to Us," is a student-led initiative that has been running for three consecutive years. The campaign aims to raise women's awareness of the importance of early breast cancer detection by distributing informational brochures to patients, visitors, and their companions at the College of Medicine and Imamain Al-Kadhimain Hospital. It also directs them to breast examination clinics staffed by specialist doctors who conduct the necessary clinical examinations, while referring suspected cases for further testing and advanced examinations.

Evidence link: <https://colmed-alnahrain.edu.iq/ar/news/b2c0cf03-87bc-4087-8aa2-6e2236ac0237>



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[6] Education & Research (ED)

[6.13] (ED.6) Number of cultural activities on campus

The university continues to organize and host a comprehensive program of seminars, workshops, and panel discussions. To maintain transparency and ensure digital documentation, all these activities are announced regularly on the official websites of the university and its colleges. Attached is a guide summarizing the number of these scientific activities and events completed by each college.



Evidence:

https://drive.google.com/file/d/1WiIP_vbjm81wO0kir144nXTQ33zFAX_j/view?usp=sharing



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[6] Education & Research (ED)

[6.14] (ED.7) Number of university program(s) with international collaborations

Number of university program =9

- 1- Al-Nahrain University maintains a robust portfolio of international academic and research collaborations aimed at advancing the United Nations Sustainable Development Goals (SDGs). During the academic year 2025, the university actively operated four comprehensive programs spanning renewable energy, eco-friendly construction, global education accessibility, and assistive healthcare technologies. These programs are backed by official administrative decrees, memoranda of understanding (MoUs), and formal ministerial correspondences.

Link

https://docs.google.com/document/d/1ilf8amZn8wqx_5jLCUjzvlwtj2Hn6qfb/edit?usp=sharing&oid=116556886869906066658&rtpof=true&sd=true

- 2- Al-Nahrain University organized key institutional events in 2025 to enrich global sustainability dialogs

Link::<https://docs.google.com/document/d/1-j8BYWeDmkfa2k3tykaE6MZyBBWW7i30/edit?usp=sharing&oid=116556886869906066658&rtpof=true&sd=true>

3- Al-Nahrain University has developed an evaluation system for the staff and faculty members through an electronic form based on the following indicators:

- 1- Teaching efficiency and number of courses
- 2- Scientific activity, which represents published research
- 3- Participation in international conferences, seminars, and workshops



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4- Helpdesk group for E-Learning

Switching to E-Learning. This mission has as objective to maintain the relationship with the students locked down home and reassure them as well as their families about the fate of the courses and the diplomas. Nevertheless, professors were not ready to switch to total distance learning and some were completely not familiar with eLearning platforms and or software.

For this, the Pedagogic Innovation Cell of Al-Nahrain University of worked very hard to identify the needs very quickly and to organise distance lectures to professors for eLearning discovering and mastering. An e-learning unit were created for supporting teachers and students as well, through online workshops (Zoom, Google Meet), emergency e-mails, e-learning website, operation rooms, social media such as telegram groups, and through the classes (Google Classroom & Moodle). A google classroom for students was created for online discussion and immediate supporting with some teaching manuals as well as the recorded training materials. The used applications and tools were imposed to teachers to reduce technological constraints or teachers/students apprehension.



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دورة تنمية مهارات التعلم الإلكتروني للطلاب الجامعي
(This class is intended for technical support to the students & tra...)

Class code gjvzly7

Meet

Join

Visible to students

Announce something to your class

Dr. Shaima Safa aldin posted a new question: (ممكنه كندية استفساركم للحصول على الدعم الفني) ...
Feb 14 (Edited Feb 22)

Helpdesk group for E-Learning
(Al-Nahrain University, Iraq)

evidences link:

- <http://e-learning.nahrainuniv.edu.iq/ar>
- <https://mdl.coie-nahrain.edu.iq/course/index.php>



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The screenshot displays a Google Classroom interface. At the top, there are four course cards for '6th Stage Final Exams', '1st Stage Final Exams', 'SPSS (Ph.D.)', and 'Research Design (M....)'. Below these are three more cards for '(Higher Diploma) Post...', 'Postgraduate (Ph.D.) Physiology Dep.', and 'Postgraduate (Ph.D.) Pathology&Geriatric Medicine Dep.'. The bottom section shows an 'edpuzzle' content player with a search bar and navigation tabs for 'Content', 'Gradebook', and 'My Cla...'. The content player displays a 'Basic account' and a list of video lectures: 'Lecture 8 - VHDL and Verilog HDL', 'Lecture 7 - Sequential Logic Circuits', 'Lecture 6 - Flip-Flops, Registers and Memory', and 'Lecture 5 - Multiplexer and Demultiplexer'. Each lecture card includes a thumbnail, a title, and a duration.



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Al-Nahrain University
College of Information Engineering
E-Learning System
نظام التعليم الإلكتروني
جامعة النهرين - كلية هندسة المعلومات

Department of Networks Engineering

Dashboard Courses College of Information Engineering 2019-2020 Department of Networks Engineering Manage

Course categories:
College of Information Engineering / 2019-2020 / Department of Networks Engineering

Search courses Go

1 2 +

- ▶ First Year
- ▶ Second Year
- ▶ Third Year
- ▶ Fourth Year

(Online Teaching Methods – Zoom, Google Meet, EdPuzzle, Google Classroom & Moodle)



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e-learning Home Operations Rooms Exams Table 2nd sem-tables Emergency emails

1st Semester 2nd Semester

Law Medicine Engineering Science Political Science

College of Information Engineering

College of Business Economics

College of Health Administration

e-learning Home Operations Rooms Exams Table 2nd sem-tables Emergency emails

schedules

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Faculty of medicine
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- Any -
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- Any -
Instructor's nam



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Link	until the hour	from the hour	Today	class type	Subject Name	Instructor's name	stage	Section	the college
	12:00	9:00	Wednesday	theoretical	aaa	text2	The first stage	physics department	College of Science
	12:00	9:00	Tuesday	my work	aaa	text2		Computer engineering department	College of Engineering
	12:00	9:00	Monday	theoretical	aaa	text2	level five		faculty of Pharmacy
	12:00	9:00	Sunday	my work	aaa	text2	The fourth stage	Department of Plant Biotechnology	College of Biotechnology
	12:00	9:00	Saturday	theoretical	aaa	text2	The second phase	Department of Economics of Investment and Resources Management	College of Business Economics
	12:00	9:00	Monday	my work	aaa	text2	The second phase	Systems Engineering Department	Faculty of Information Engineering
	12:00	9:00	Thursday	theoretical	aaa	text2	The first stage	Department of International Politics	Faculty of Political Science
	12:00	9:00	Wednesday	my work	aaa	text2		Computer Science Department	College of Science

Supporting Tools (E-learning website, operations rooms, emergency e-mails)

<https://e-learning.nahrainuniv.edu.iq/>

5- Virtual Workshop, symposium, & conference

Many workshops, symposium & conferences have been held virtually, and below are some of them:

1. An electronic practical symposium entitled Errors and traps in laparoscopic cholecystectomy:

The Surgery Branch of the College of Medicine at Al-Nahrain University held an electronic scientific symposium on the errors and traps in laparoscopic cholecystectomy, through the zoom application, with the participation of several faculty members in the college and several doctors from the Imam Al-Kazimin (P) Medical City.

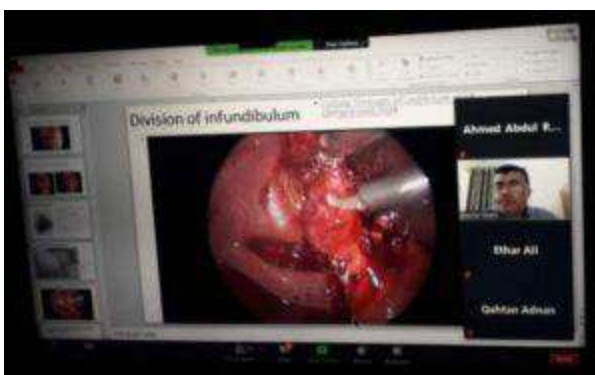
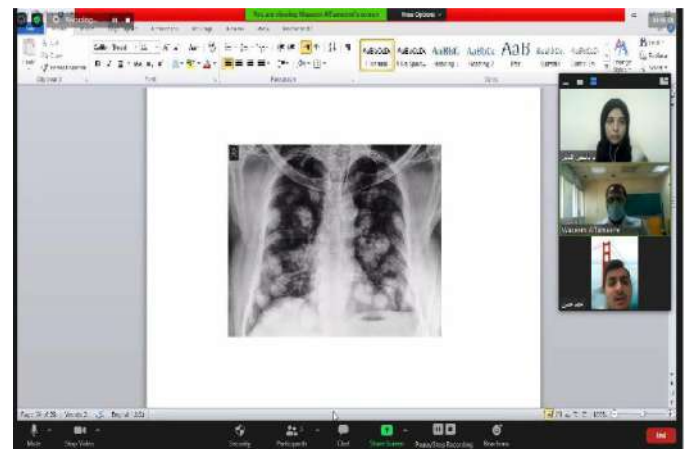
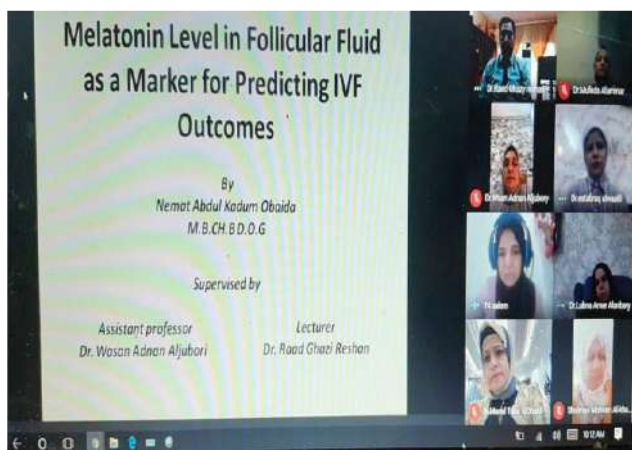
The symposium, which was given by Dr. Bashar Abbas Abdel Hassan, aimed to identify the traps and mistakes that the surgeon makes during the procedure for removing the gallbladder bag.

The workshop included several axes, including a review of mistakes and traps that the surgeon may fall into during laparoscopic excision of the gallbladder bag, its side effects as



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it is one of the most common operations, and the new surgical methods and means through which mistakes can be avoided.





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2- Annual electronic conference under the slogan of education and electronic platforms in Iraq.

The Continuing Education Center at Al-Nahrain University held an annual electronic conference under the title Education and Electronic Platforms in Iraq.

The Director of the Center said that the conference aims to unify efforts and knowledge integration between relevant institutions in Iraq, neighboring countries and the world, and to exchange and update information to enhance scientific contributions to the development of continuing education tools and related axes, especially the e-learning axis.

The Director of the Center stressed the importance of higher education in Iraq through academic and continuing education centers to lay the correct foundations for the concepts of modern society and look forward with great optimism for the coming period.

The conference included several axes, the axis of continuing education (visions and horizons), the axis of education and electronic platforms (academic future), the axis of languages and skills development, the axis of modern teaching methods and teaching aids, the administrative and legal axis in higher education, and the axis of psychological and social sciences.

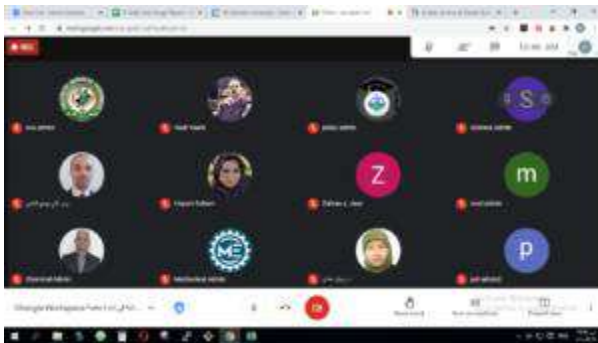


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3- Training workshop entitled (The latest procedural methods in managing the Google Workspace platform):

The Continuing Education Center / Al-Nahrain University held a training workshop entitled (The latest procedural methods in managing the Google Workspace platform) for platform managers in all colleges, and on the Google Meet video platform, in preparation for the new school year.



4- First applied research conference ARIE 2021 at COIE:

Under the patronage of His Excellency the Minister of Higher Education and Scientific Research, Prof. Dr. Nabil Kazem Abdel-Saheb, and under the supervision of the President of Al-Nahrain University, Prof. Dr. Ali Abdel Aziz Al-Shawi, under the slogan (Scientific Research – Continuing Despite Challenges).

The Faculty of Information Engineering was inaugurated this morning, Tuesday 29-6-2021, in cooperation with the Islamic University of Lebanon.



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5- Al-Nahrain University, in cooperation with Damas Scientific Office, organizes a lecture entitled “Role of Ultrasound in prediction of endometrial receptivity”:



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تحت رعاية السيد رئيس جامعة النهرين الأستاذ الدكتور
محمد صاحب مهدي المحترم
وبإشراف السيدة عميدة المعهد العالي لتشخيص العقم و
التقنيات المساعدة على الأنجاب الأستاذ المساعد الدكتور
منال طه العبيدي المحترمة
و بالتعاون مع مكتب داماس العلمي - الوكيل الحصري
لشركة أنتاس

يدعوكم المعهد العالي لتشخيص العقم و التقنيات
المساعدة على الأنجاب لحضور محاضرة بعنوان
**Role Of Ultrasound in predictor of endometrial
receptivity**

وذلك في يوم **الجمعة المصادف 2020-4-24** في تمام
الساعة العاشرة - الحادية عشر صباحا بتوقيت العراق

Dr.Sonal Panchal

- Consultant sonography specialist at Dr.Nagari's Institute for Infertility and IVF, Ahmedabad.
- Professor, Dubrovnik International University, Croatia.
- Master of Ultrasound in Obstetrics and Gynecology, Ian Donald Inter-university School of Medical Ultrasound, completed in January 2019.
- Faculty Ian Donald Master's Courses in Ultrasound in OBGyn. And Master's courses in Human Reproduction.



Webinar Registration/viewer link -
www.streamgo.in/webcme-drsonalpanchal

6- Final projects that are submitted using the e-learning platform



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2

Al-Nahrain University
College of Information Engineering
E-Learning System
نظام التعلم الإلكتروني
جامعة النهرين - كلية هندسة المعلومات

Final Year Project 2019/2020

Dashboard My courses Final Year Project 2019/2020 Final Report Submission-After Debate Final Report Submission

Final Report Submission

This is the final report submission portal. Read carefully:

1. You should modify your report according to the Examining Committee notes and instructions.
2. Sign your report from your supervisor (certificate)
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4. Upload the report (with signed certificates) in the same naming style HERE before the deadline **(22/8/2020 at 23:59)**.
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FINAL REPORT SUBMISSION-BEFORE DEBATE

Upload your Final Report HERE

Dear All,

Submit your project report in the form of one **PDF** file. The name of the file should be like this:
FYP_2019-2020_StudentName_ProjectShortTitle

The file should be signed by your supervisor, so make sure you send your report to him/her before deadline to get their (electronic) signature.

You have 3 attempts ONLY to update your file before the deadline (16/8/2020 at 23:59).

Select	User picture	First name / Surname	Email Address	Status	Grade	Edit	Last modified (submission)	File submissions
<input type="checkbox"/>		زكريا بشير علي Zakirio Bishir Ali	zakirabical90@gmail.com	Submitted for grading	Grade	Edit	Monday, 17 August 2020, 12:54 PM	FYP_2019-2020
<input type="checkbox"/>		نور محمد خالد nuha Mohamed khaled	nuharaeed97@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 8:41 PM	FYP_2019-2020
<input type="checkbox"/>		باتول مهدي عبد الله Batool mahdin saadullah	batool.mohsin'0@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 11:03 PM	FYP_2019-2020
<input type="checkbox"/>		زينب جاسم جعفر Zainab Jassem	zainabjassem9831@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 5:17 PM	FYP_2019-2020

Active



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6- Some teaching videos for teachers and students were published on YouTube channel:

https://www.youtube.com/channel/UCCVuhVOFkgt4athkA_B8VUQ/playlists

7- Some online Quizzes:

Choose the correct answer:

The energy transfer by heat where the work done is 0.0027 Joule 1 point

2.53 erg

25.3erg

270000erg

0.00027erg

Gamma ray has 1 point

wavelength larger than IR

energy less than visible

frequency larger than X-ray

Next Page 1 of 5

Back Next Page 2 of 5

Never submit passwords through Google Forms.

8- Virtual workshop of setup a classroom & creating online quiz in a Google G-Suite platform.

The teachers' guide was prepared by the Higher Institute for Infertility Diagnostics at Al-Nahrain University "Google Classroom"



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9- Tealemoo web site

<https://tealemoo.com/wp-content/uploads/2020/04/%D8%AF%D9%84%D9%8A%D9%84-%D8%B4%D8%A7%D9%85%D9%84-%D8%B9%D9%86-%D9%81%D8%A7%D9%8A%D8%B1%D9%88%D8%B3-%D9%83%D9%88%D8%B1%D9%88%D9%86%D8%A7.pdf>



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[6] Education & Research (ED)

[6.14] (ED.7) Number of university program(s) with international collaborations

Number of university program =9

- 1- Al-Nahrain University maintains a robust portfolio of international academic and research collaborations aimed at advancing the United Nations Sustainable Development Goals (SDGs). During the academic year 2025, the university actively operated four comprehensive programs spanning renewable energy, eco-friendly construction, global education accessibility, and assistive healthcare technologies. These programs are backed by official administrative decrees, memoranda of understanding (MoUs), and formal ministerial correspondences.

Link

https://docs.google.com/document/d/1ilf8amZn8wqx_5jLCUjzvlwtj2Hn6qfb/edit?usp=sharing&oid=116556886869906066658&rtpof=true&sd=true

- 2- Al-Nahrain University organized key institutional events in 2025 to enrich global sustainability dialogs

Link::<https://docs.google.com/document/d/1-j8BYWeDmkfa2k3tykaE6MZyBBWW7i30/edit?usp=sharing&oid=116556886869906066658&rtpof=true&sd=true>

3- Al-Nahrain University has developed an evaluation system for the staff and faculty members through an electronic form based on the following indicators:

- 1- Teaching efficiency and number of courses
- 2- Scientific activity, which represents published research
- 3- Participation in international conferences, seminars, and workshops



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4- Participation in the service of state institutions

5- Job commitment, job skills, and participation in volunteer work



وزارة التعليم العالي والبحث العلمي
 جوائز الاعتراف والتقييم العلمي / قسم تقييم الأداء
 نظام تقييم الأداء الإلكتروني

عنوان اتصالك سيتم الاحتفاظ به في حال تم استخدام النظام بطريقة تخالف التعليمات

اسم المستخدم:
 كلمة المرور:
 تذكرني في المرة القادمة.

هل نسيت كلمة المرور? [انقر هنا](#)



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4- Helpdesk group for E-Learning

Switching to E-Learning. This mission has as objective to maintain the relationship with the students locked down home and reassure them as well as their families about the fate of the courses and the diplomas. Nevertheless, professors were not ready to switch to total distance learning and some were completely not familiar with eLearning platforms and or software.

For this, the Pedagogic Innovation Cell of Al-Nahrain University of worked very hard to identify the needs very quickly and to organise distance lectures to professors for eLearning discovering and mastering. An e-learning unit were created for supporting teachers and students as well, through online workshops (Zoom, Google Meet), emergency e-mails, e-learning website, operation rooms, social media such as telegram groups, and through the classes (Google Classroom & Moodle). A google classroom for students was created for online discussion and immediate supporting with some teaching manuals as well as the recorded training materials. The used applications and tools were imposed to teachers to reduce technological constraints or teachers/students apprehension.



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دورة تنمية مهارات التعلم الإلكتروني للطلاب الجامعي
(This class is intended for technical support to the students & tra...)

Class code gjvzly7

Select theme
Upload photo

Meet
Join
Visible to students

Announce something to your class

Dr. Shaima Safa aldin posted a new question: (ممكنه كتيبة استفساركم للحصول على الدعم الفني) ...
Feb 14 (Edited Feb 22)

Helpdesk group for E-Learning
(Al-Nahrain University, Iraq)

evidences link:

- <http://e-learning.nahrainuniv.edu.iq/ar>
- <https://mdl.coie-nahrain.edu.iq/course/index.php>



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The screenshot displays a Google Classroom interface. At the top, the 'Google Classroom' header is visible. Below it, there are several course cards, each with a blue header and the Nahrain University logo. The cards include:

- 6th Stage Final Exams (كلية الطب جامعة النهرين)
- 1st Stage Final Exams (كلية الطب جامعة النهرين)
- SPSS (Ph.D.) (كلية الطب جامعة النهرين)
- Research Design (M....) (كلية الطب جامعة النهرين)
- (Higher Diploma) Postgraduate (Chemistry & Biochemistry Dep.) (كلية الطب جامعة النهرين)
- Postgraduate (Ph.D.) (Physiology Dep.) (كلية الطب جامعة النهرين)
- Postgraduate (Ph.D.) (Pathology & Forensic Medicine Dep.) (كلية الطب جامعة النهرين)
- Postgraduate (Ph.D.) (Microbiology Dep.) (كلية الطب جامعة النهرين)

Below the course cards, there is an 'edpuzzle' content player. The player shows a 'Basic account' and a 'Check' button. The main content area displays a list of video lectures with their durations and titles:

Duration	Title
1:00:01	Lecture 8 - VHDL and Verilog HDL
1:01:05	Lecture 7 - Sequential Logic Circuits
1:08:47	Lecture 6 - Flip-Flops, Registers and Memory
33:04	Lecture 5 - Multiplexer and Demultiplexer



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The screenshot shows the Al-Nahrain University E-Learning System interface. At the top, there is a header with the university logo and name in Arabic and English, and the text 'E-Learning System'. Below the header, the main title is 'Department of Networks Engineering'. A navigation menu includes 'Dashboard', 'Courses', 'College of Information Engineering', '2019-2020', 'Department of Networks Engineering', and 'Manag'. Under 'Course categories', there is a breadcrumb trail: 'College of Information Engineering / 2019-2020 / Department of Networks Engineering'. A search bar is labeled 'Search courses' with a 'Go' button. Below the search bar, there are pagination controls showing '1', '2', and a plus sign. A list of course categories is displayed: 'First Year', 'Second Year', 'Third Year', and 'Fourth Year', each with a right-pointing arrow.

(Online Teaching Methods – Zoom, Google Meet, EdPuzzle, Google Classroom & Moodle)



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e-learning Home Operations Rooms Exams Table 2nd sem-tables Emergency emails

1st Semester 2nd Semester

Law Medicine Engineering Science Political Science

College of Information Engineering

College of Business Economics

College of Health Administration

e-learning Home Operations Rooms Exams Table 2nd sem-tables Emergency emails

schedules

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Faculty of medicine

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- Any -

Instructor's nam



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Link	until the hour	from the hour	Today	class type	Subject Name	Instructor's name	stage	Section	the college
	12:00	9:00	Wednesday	theoretical	aaa	text2	The first stage	physics department	College of Science
	12:00	9:00	Tuesday	my work	aaa	text2		Computer engineering department	College of Engineering
	12:00	9:00	Monday	theoretical	aaa	text2	level five		faculty of Pharmacy
	12:00	9:00	Sunday	my work	aaa	text2	The fourth stage	Department of Plant Biotechnology	College of Biotechnology
	12:00	9:00	Saturday	theoretical	aaa	text2	The second phase	Department of Economics of Investment and Resources Management	College of Business Economics
	12:00	9:00	Monday	my work	aaa	text2	The second phase	Systems Engineering Department	Faculty of Information Engineering
	12:00	9:00	Thursday	theoretical	aaa	text2	The first stage	Department of International Politics	Faculty of Political Science
	12:00	9:00	Wednesday	my work	aaa	text2		Computer Science Department	College of Science

Supporting Tools (E-learning website, operations rooms, emergency e-mails)

<https://e-learning.nahrainuniv.edu.iq/>

5- Virtual Workshop, symposium, & conference

Many workshops, symposium & conferences have been held virtually, and below are some of them:

1. An electronic practical symposium entitled Errors and traps in laparoscopic cholecystectomy:

The Surgery Branch of the College of Medicine at Al-Nahrain University held an electronic scientific symposium on the errors and traps in laparoscopic cholecystectomy, through the zoom application, with the participation of several faculty members in the college and several doctors from the Imam Al-Kazimin (P) Medical City.

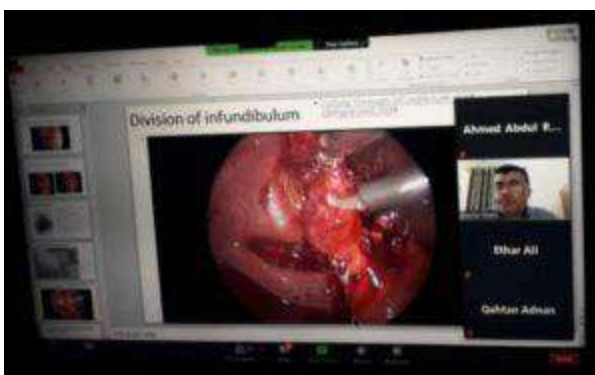
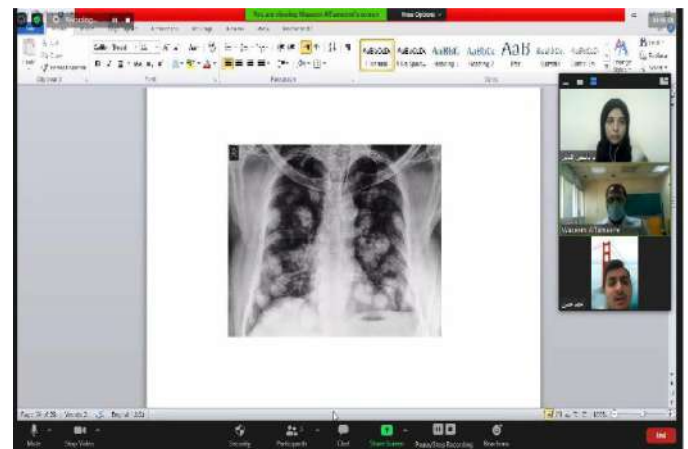
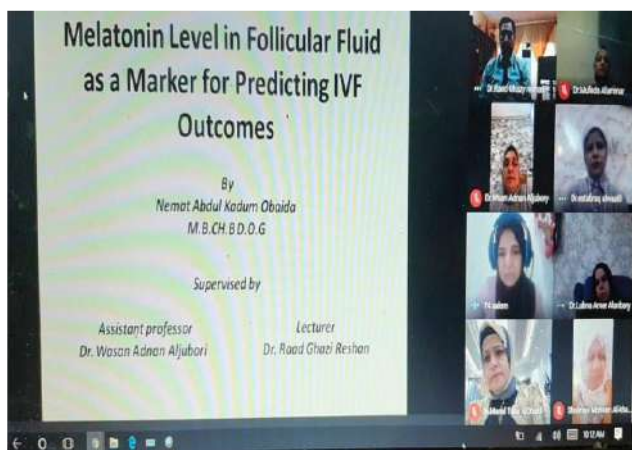
The symposium, which was given by Dr. Bashar Abbas Abdel Hassan, aimed to identify the traps and mistakes that the surgeon makes during the procedure for removing the gallbladder bag.

The workshop included several axes, including a review of mistakes and traps that the surgeon may fall into during laparoscopic excision of the gallbladder bag, its side effects as



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it is one of the most common operations, and the new surgical methods and means through which mistakes can be avoided.





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2- Annual electronic conference under the slogan of education and electronic platforms in Iraq.

The Continuing Education Center at Al-Nahrain University held an annual electronic conference under the title Education and Electronic Platforms in Iraq.

The Director of the Center said that the conference aims to unify efforts and knowledge integration between relevant institutions in Iraq, neighboring countries and the world, and to exchange and update information to enhance scientific contributions to the development of continuing education tools and related axes, especially the e-learning axis.

The Director of the Center stressed the importance of higher education in Iraq through academic and continuing education centers to lay the correct foundations for the concepts of modern society and look forward with great optimism for the coming period.

The conference included several axes, the axis of continuing education (visions and horizons), the axis of education and electronic platforms (academic future), the axis of languages and skills development, the axis of modern teaching methods and teaching aids, the administrative and legal axis in higher education, and the axis of psychological and social sciences.

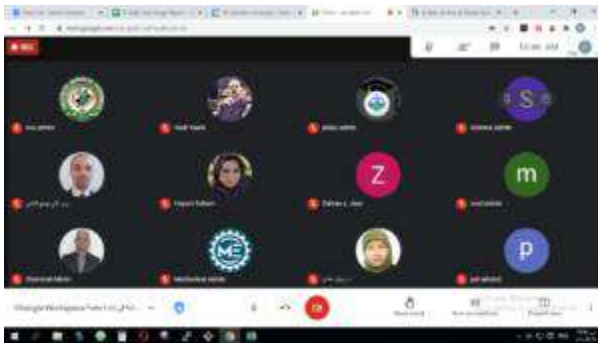


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3- Training workshop entitled (The latest procedural methods in managing the Google Workspace platform):

The Continuing Education Center / Al-Nahrain University held a training workshop entitled (The latest procedural methods in managing the Google Workspace platform) for platform managers in all colleges, and on the Google Meet video platform, in preparation for the new school year.



4- First applied research conference ARIE 2021 at COIE:

Under the patronage of His Excellency the Minister of Higher Education and Scientific Research, Prof. Dr. Nabil Kazem Abdel-Saheb, and under the supervision of the President of Al-Nahrain University, Prof. Dr. Ali Abdel Aziz Al-Shawi, under the slogan (Scientific Research – Continuing Despite Challenges).

The Faculty of Information Engineering was inaugurated this morning, Tuesday 29-6-2021, in cooperation with the Islamic University of Lebanon.



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5- Al-Nahrain University, in cooperation with Damas Scientific Office, organizes a lecture entitled “Role of Ultrasound in prediction of endometrial receptivity”:



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**Role Of Ultrasound in predictor of endometrial
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جامعة النهرين - كلية هندسة المعلومات

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Select	User picture	First name / Surname	Email Address	Status	Grade	Edit	Last modified (submission)	File submissions
<input type="checkbox"/>		زكريا بشير علي Zakaria Bishar Ali	zakriabical90@gmail.com	Submitted for grading	Grade	Edit	Monday, 17 August 2020, 12:54 PM	FYP_2019-2020
<input type="checkbox"/>		نور محمد خاليد nuha Mohamed khalid	nuharaeed97@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 8:41 PM	FYP_2019-2020
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<input type="checkbox"/>		زينب جاسم جعفر Zainab Jassem	zainabjassem9831@gmail.com	Submitted for grading	Grade	Edit	Sunday, 16 August 2020, 5:17 PM	FYP_2019-2020

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9- Tealemoo web site

<https://tealemoo.com/wp-content/uploads/2020/04/%D8%AF%D9%84%D9%8A%D9%84-%D8%B4%D8%A7%D9%85%D9%84-%D8%B9%D9%86-%D9%81%D8%A7%D9%8A%D8%B1%D9%88%D8%B3-%D9%83%D9%88%D8%B1%D9%88%D9%86%D8%A7.pdf>



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[6] Education & Research (ED)

[6.15] (ED.8) Number of sustainability community services project organised and/or involving students

Al-Nahrain University actively engages its students in community development and environmental sustainability through a variety of organized community service projects. These initiatives aim to promote social responsibility and address local challenges. Students participate directly in large-scale tree-planting and planting campaigns both on and off campus to combat desertification and expand green spaces. In addition, they contribute by attending courses offered by the university's consulting offices, and the Renewable Energy Research Center provides a range of services to the public and private sectors that contribute to driving sustainable local development.

No.	Colleges / Units	Activity Title	Activity Type	Date	Beneficiary	Activity Objective	UI GreenMetric Axis
1	Unit of Psychological Counseling / College of Medicine	Visit to Al-Ayn Social Care Foundation	Field Visit	2024-2025	Orphans	To provide psychological and moral support for orphaned children.	ED
2	Unit of Psychological Counseling / College of Medicine	Visit to Imam Al-Gawad (PBUH) Complex for Orphans	Field Visit	2024-2025	Orphans	To follow up on orphans' welfare and promote social solidarity.	ED



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3	Unit of Psychological Counseling / High Institute for Infertility Diagnosis & Assisted Reproductive Technologies	Contributions of Muslims to Pediatrics	Panel Discussion	2024-2025	Visitors / Patients	To highlight Islamic medical heritage and raise health awareness.	ED
4	Unit of Psychological Counseling / High Institute for Infertility Diagnosis & Assisted Reproductive Technologies	Dar Al-Hanan for Severe Disabilities	Volunteer Campaign	2024-2025	The Community	To deliver humanitarian aid and specialized care for the severely disabled.	ED
5	Unit of Psychological Counseling / High Institute for Infertility Diagnosis & Assisted Reproductive	Dar Al-Rahma Nursing Home	Field Visit	2024-2025	The Elderly	To care for senior citizens, bringing joy and boosting their morale.	ED



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	Technologies						
6	Unit of Psychological Counseling / College of Medicine and Pharmacy	Dar Al-Rahma Nursing Home	Volunteer Work (Iftar Banquet)	2024-2025	The Elderly	To strengthen human bonds with the elderly during the holy month of Ramadan.	ED
7	Unit of Psychological Counseling / College of Medicine	Visit to the Holy Kadhimiya Shrine with Graduate Students	Field Visit	2024-2025	College Students	To enhance the spiritual and ethical values of graduates before dynamic employment.	ED
8	Unit of Psychological Counseling / College of Medicine	Visit to Imam Al-Gawad (PBUH) Complex for Orphans	Field Visit	2024-2025	Orphans	To distribute gifts and activate the university's role in local charities.	ED
9	Unit of Psychological Counseling / College of Biotechnology	Field Visit to the Elderly Care Home	Field Visit	2024-2025	The Elderly	To offer continuous social and psychological counseling to senior residents.	ED
10	Psychological Counseling	Gaza's Children:	Festival	2024-2025	Students & Faculty	To express humanitarian	ED



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	Division / University Presidency	Their Dreams, a Safe and Stable Environment				solidarity and advocate for children's rights.	
11	Unit of Psychological Counseling / College of Engineering	Visit to Al-Salihiya Orphanage	Community Service	2024-2025	Al-Salihiya Orphanage	To engage engineering staff and students in local community services.	ED
12	Unit of Psychological Counseling / College of Medicine	Charity Bazaar in Cooperation with Al-Ayn Foundation	Volunteer Work	2024-2025	Al-Ayn Social Care Foundation	To collect charitable funds and support orphan financial aid.	ED
13	Unit of Psychological Counseling / College of Biotechnology	Volunteering	Community Service	2024-2025	Members of the Iraqi House	To sustain creative talents and empower underprivileged youths.	ED
14	Unit of Psychological Counseling / College of Biotechnology	Voluntary Campaign / Providing Aid	Volunteer Work	2024-2025	Orphans in the Home	To distribute material and food supplies to needy families and orphans.	ED



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15	Center for Renewable Energy Research	Renewable Energy Technical Support & Consultations	Community Service	2024-2025	Public & Private Sectors	To support the transition to clean energy and reduce carbon emissions in local institutions.	ED
16	Afforestation & Gardening Campaigns	Afforestation & Gardening Campaigns (Inside & Outside Campus)	Volunteer Campaign	2024-2025	Local Environment & Community	To combat desertification, expand green spaces, and raise environmental awareness among students.	ED
17	Advisory Bureaus	Free Professional & Technical Consultations	Community Service		Local Community & Institutions	To provide community access to expert knowledge and support sustainable local development.	

Link:

<https://drive.google.com/file/d/1iZesag3agcRhdeBu9gDEzlvn-GsgsWZg/view?usp=sharing>

Link: <https://www.facebook.com/share/1HoFbAHekb/?mibextid=wwXlfr>



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Link:

https://drive.google.com/file/d/1SLvT_jyEy77i74yNrEbOxOXUL_RrvxPM/view?usp=sharing



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[6] Education & Research (ED)

[6.16] (ED.9) Number of sustainability-related startups

Number of sustainability – related startups = 7

1- Scientific Advisory Office at the College of Science, Al-Nahrain University



Evidence link: https://sc.nahrainuniv.edu.iq/viewpage.php?page_id=8

2- The legal advisory office at the College of Science, Al-Nahrain University



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Evidence link: https://web.facebook.com/alnahrain.law.advisory/?_rdc=1&_rdr

3- Engineering Consulting Office at the College of Science, Al-Nahrain University



Evidence : https://mobile.facebook.com/profile.php?id=100063959866056&_rdc=1&_rdr

4- Al-Nahrain University owns many greenhouses and produces large quantities of ornamental trees, various outside trees, and many types of roses, and distributes them to universities and most departments of the Iraqi state.



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5- Al-Nahrain University owns apiaries to produce honey and produce large quantities of it, and the university sells honey on campus.





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The university's apiaries

6- Cultivation of different types of medicinal and ornamental plants within the greenhouse atmosphere in the winter season, as he urged field work, which is a scientific achievement in keeping pace with global development in the cultivation of a group of medicinal herbs in an environment other than their natural environment, as well as the cultivation of ornamental plants in greenhouses designated for the growth of plants in a way It is functional and aesthetic. It is mentioned that the completion of the work in building the greenhouse and providing the appropriate environment for the growth of young plants under the influence of a flashing electric lamp and appropriate humidity and ventilation in accordance with this design, which aims to provide plants with the light and heat necessary for growth, and give the house a beautiful natural luster and create suitable ventilation for plants and benefit It is for research and aesthetic purposes.





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7- The Million Trees Project is carried out annually by Al-Nahrain University during the summer and winter seasons, with the participation of students and all campus residents





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[6] Education & Research (ED)

[6.17] Total number of graduates with green jobs (for the last 3 years)

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2022/2023	Civil Engineering	129	0	Project Management	Alumni Survey
2022/2023	Mechanical Engineering	49	1	Renewable Energy Engineer	Alumni Survey
2022/2023	Chemical Engineering	36	3	Product development and analysis	Alumni Survey
2022/2023	Architectural Engineering	29	1	Sustainable architectural designer	Alumni Survey
2022/2023	Computer Engineering	36	24	Green digital transformation	Alumni Survey
2022/2023	Biotechnology	97	5	Environmental technologies	Alumni Survey
2022/2023	Chemistry	60	32	Environmental Chemist	Alumni Survey
2022/2023	Physics	42	19	Renewable Energy Consultant	Alumni Survey
2022/2023	Computer Science	32	18	environmental Data Analyst	Alumni Survey
2022/2023	Business Economics	132	3	sustainable economy	Alumni Survey
2023/2024	Civil Engineering	54	6	Project Management	Alumni Survey
2023/2024	Mechanical Engineering	22	15	Renewable Energy Engineer	Alumni Survey
2023/2024	Chemical Engineering	26	1	Product development and analysis	Alumni Survey
2023/2024	Engineering Architectural	36	2	Sustainable architectural designer	Alumni Survey



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2023/2024	Computer Engineering	25	18	Green digital transformation	
2023/2024	Biotechnology	93	6	Environmental technologies	Alumni Survey
2023/2024	Chemistry	58	34	Environmental Chemist	Alumni Survey
2022/2023	Physics	38	20	Renewable Energy Consultant	Alumni Survey
2022/2023	Computer Science	34	20	environmental Data Analyst	Alumni Survey
2023/2024	Business Economics	155	10	sustainable economy	Alumni Survey
2024/2025	Civil Engineering	56	40	Project Management	Alumni Survey
2024/2025	Mechanical Engineering	25	13	Renewable Energy Engineer	Alumni Survey
2024/2025	Chemical Engineering	22	11	Product development and analysis	Alumni Survey
2024/2025	Engineering Architectural	34	20	Sustainable architectural designer	Alumni Survey
2024/2025	Computer Engineering	22	19	Green digital transformation	
2024/2025	Biotechnology	88	43	Environmental technologies	Alumni Survey
2024/2025	Chemistry	52	30	Environmental Chemist	Alumni Survey
2024/2025	Physics	31	23	Renewable Energy Consultant	Alumni Survey
2024/2025	Computer Science	30	22	environmental Data Analyst	Alumni Survey
2024/2025	Business Economics	158	66	sustainable economy	Alumni Survey
	Total	1701	493		



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[6] Education & Research (ED)

[6.18] Total number of graduates (for the last 3 years)

Academic Year	Faculty	Total Graduates
2022/2023	Medicine	179
2022/2023	Law	85
2022/2023	Engineering	276
2022/2023	Sciences	115
2022/2023	Political science	81
2022/2023	Information engineering	59
2022/2023	Business Economic	113
2022/2023	Higher Institute for Infertility Diagnosis and ARTs	79
2022/2023	Biotechnology	64
2022/2023	Pharmacy	80
2023/2024	Medicine	191
2023/2024	Law	135
2023/2024	Engineering	332
2023/2024	Sciences	146
2023/2024	Political science	137
2023/2024	Information engineering	86
2023/2024	Business Economic	163
2023/2024	Higher Institute for Infertility Diagnosis and ARTs	24
2023/2024	Biotechnology	89



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2023/2024	Pharmacy	127
2024/2025	Medicine	340
2024/2025	Law	186
2024/2025	Engineering	430
2024/2025	Sciences	180
2024/2025	Political science	221
2024/2025	Information engineering	114
2024/2025	Business Economic	178
2024/2025	Higher Institute for Infertility Diagnosis and ARTs	18
2024/2025	Biotechnology	96
2024/2025	Pharmacy	127
	Total	4451



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[6] Education & Research (ED)

[6.19] (ED.10) Percentage of number of graduates with green jobs (for the last 3 years)

$$((6.17/6.18) \times 100\%)$$

$$493/4451 \times 100\%$$

11 %



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[6] Education & Research (ED)

[6.20] Impact of Education and Research programs in supporting the Sustainable Development Goals (SDGs).

The university has undertaken a wide range of education and research programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives demonstrate a strong institutional commitment to sustainability integration across teaching, learning, innovation, and community engagement. Key programs include:

- Integrating sustainability topics into the curricula of various university disciplines, including environmental sciences, engineering, economics, public health, social sciences, etc.
- Developing interdisciplinary courses focusing on climate change, energy transition, economics, and sustainable development.
- The university has specialized research centers and laboratories to address key sustainability challenges such as renewable energy and biodiversity.
- Annual publication of sustainability-related research outputs, including publication in peer-reviewed scientific journals, books, and innovative patents.
- Providing sustainability-focused scholarships across the university's colleges, including for Iraqi and international students.
- Organization of conferences, workshops on SDG-related themes to foster knowledge exchange and interdisciplinary dialogue.
- Implementing environmental awareness campaigns by student teams in collaboration with university staff to raise awareness among students, staff, and the wider campus community.
- Building partnerships with international academic networks to expand research collaboration and share best practices in education for sustainable development.



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These efforts directly support **SDGs 3, 4, 5, 6, 7, 9, 11, 12, 13, 15, and 17**, and contribute indirectly to the remaining goals, including:

- **SDG 3** – Enhancing health and well-being through applied public health research
- **SDG 4** – Providing quality education that empowers learners for sustainability
- **SDG 5** – Promoting gender equality through inclusive academic opportunities
- **SDG 6** – Advancing water research and infrastructure innovation
- **SDG 7** – Driving clean energy solutions through academic inquiry
- **SDG 9** – Supporting innovation and sustainable industrialization
- **SDG 11** – Enabling sustainable urban planning through applied research
- **SDG 12** – Encouraging responsible production and consumption patterns
- **SDG 13** – Promoting climate science and adaptation strategies
- **SDG 15** – Conserving ecosystems through environmental research
- **SDG 17** – Building academic partnerships for global sustainable development



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Governance & Digitalization (GD)



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[7] Governance and Digitalization (GD)

[7.2] University's budget for sustainability effort (in US Dollars)

	2023	2024	2025	Average
Budget Total	\$ 38,778.863	\$ 39,766.36	\$ 53,267.77	\$ 43,937.66
Sustainability Budget	\$5,816.00	\$5,964.00	\$7,990.00	\$6,590.00
			Percentage	15 %



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[7] Governance and Digitalization (GD)

[7.10] (GD.5) Availability of units or offices that coordinate or are related to sustainability

|

Al-Nahrain University has established a sustainability management framework. Sustainability is coordinated at two integrated levels:

- 1- Sustainability Hub: This operates at the university level to design overall sustainability strategies, monitor global rankings, and standardize institutional environmental data.
- 2- The Sustainability Units in the Colleges: These act as the executive and operational arm within each college. They are responsible for direct implementation, collecting university data, organizing environmental awareness campaigns, and engaging students and faculty in sustainable practices.

Evidence : <https://sustaina.nahrainuniv.edu.iq/>

NO	name	Link
1	College of Medicine	https://colmed-alnahrain.edu.iq/ar/page/s/sustainable-development
2	College of Political Science	https://pol.nahrainuniv.edu.iq/vision-mission-and-goals/
3	College of Engineering	https://eng.nahrainuniv.edu.iq/page.php?id=422



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4	College of law	https://college.nahrainlaw.org/%d8%a7%d9%84%d8%a8%d8%ad%d9%88%d8%ab-%d8%a7%d9%84%d9%85%d8%b3%d8%aa%d8%af%d8%a7%d9%85%d8%a9/
5	College of sciences	https://sc.nahrainuniv.edu.iq/viewpage.php?page_id=116
6	College of Information Engineering	https://coie-nahrain.edu.iq/sustainable-development/
7	College of Business Economics	https://eco.nahrainuniv.edu.iq/
8	College of Biotechnology	https://biotech.nahrainuniv.edu.iq/?cat=80
9	College of pharmacy	https://copharmacy.nahrainuniv.edu.iq/development-ar/
10	Higher Institute for Infertility Diagnosis and Assisted Reproductive Technologies	https://ierit.nahrainuniv.edu.iq/%d8%a7%d9%84%d8%aa%d9%86%d9%85%d9%8a%d8%a9-%d8%a7%d9%84%d9%85%d8%b3%d8%aa%d8%af%d8%a7%d9%85%d8%a9/



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[7] Governance and Digitalization (GD)

[7.11] Number of dedicated staff members assigned to the unit or office responsible for coordinating sustainability initiatives on campus

Number of staff members	31
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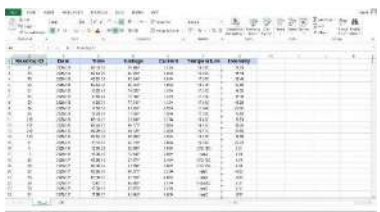
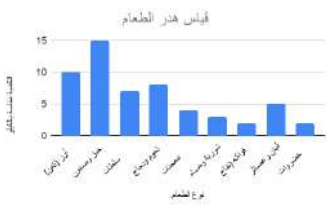


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[7] Governance and Digitalization (GD)

[7.12](GD.6) Use of ICT for sustainability program planning, implementation, monitoring and evaluation



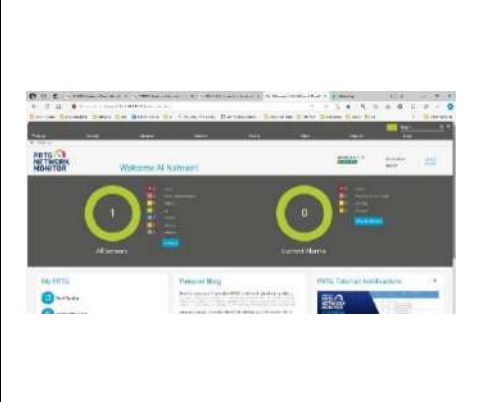
Section A — ICT for sustainability management: screenshots of sustainability dashboard/reporting system/KPI platform (showing real modules/menus).

No	Initiative	Function	Brief Description	Screenshot or link of evidence
1	Energy & Carbon Monitoring System	Monitoring	Digital system tracking electricity consumption and estimated carbon emissions across campus facilities	
2	Campus Food Waste & Safety Monitoring System	Monitoring & Evaluation	A centralized digital platform (Google Forms/Sheets infrastructure) utilized by the university administration to track food waste metrics, audit cafeteria sustainability compliance, and ensure food safety standards across campus dining facilities.	



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Section B — Connectivity readiness: Wi-Fi coverage summary (map/list), Internet/network availability snapshot, and monitoring screenshots.

No	Initiative	Function	Brief Description	Screenshot or link of evidence
1	Campus-Wide Wi-Fi Infrastructure	Implementation Support	PRTG dashboard screenshot for Al-Nahrain University, showing real-time network monitoring with zero alarms to ensure system stability	
2	Redundant Internet Connectivity	Continuity	PRTG traffic report for the core switch, proving a 99.999% network uptime to ensure seamless Wi-Fi and infrastructure continuity.	
3	Network Monitoring System	Monitoring	A screenshot of the centralized PRTG Network Monitor dashboard for Al-Nahrain University, showing real-time monitoring of all network sensors and infrastructure uptime.	



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Section C — Infrastructure reliability and security: backup/continuity summary, access control/security policy excerpt, monitoring snapshot.

No	Initiative	Function	Brief Description	Screenshot
1	Role-Based Access Control System	Governance & Data Integrity	<p>Implementation of strict RBAC policies across core institutional platforms, including the Student Information System (SIS), HR System, and the Bologna Process Management Platform. This ensures user access and administrative privileges are securely managed based on specific academic and functional roles.</p>	







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2	Data Backup & Disaster Recovery System	Continuity	Routine execution of daily automated backups and defined recovery protocols for all critical databases—including SIS, HR, Bologna Process, and E-Learning platforms —to guarantee high data availability and institutional business continuity.	
3	Annual ICT System Review & Upgrade	Evaluation & Improvement	Periodic security audits, performance evaluations, and system verification prompts across the SIS, HR, and E-Learning interfaces, ensuring continuous alignment with Ministry of Higher Education standards and technical upgrades.	
4.	<i>Bologna Process Academic Governance Platform</i>	Educational Compliance & Integrity	A centralized digital system dedicated to managing the curricula, European Credit Transfer and Accumulation System (ECTS), and student assessments under the Bologna Process , ensuring strict compliance with national academic regulations and transparent data tracking.	




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5.	Secure E-Learning Student Interfaces	Academic Continuity & Access Control	<p>An electronic service adopted by Al-Nahrain University through the HEPIQ platform (the academic portal provided by the Iraqi Higher Education Platform) since last year and it continues to this day. In addition, all colleges of the university have been using the Moodle platform since 2020. These two innovative digital platforms help students and lecturers meet their educational needs by providing integrated solutions, supporting digital transformation, and facilitating the management of academic and administrative affairs in Iraqi universities.</p>	  



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				<p>Link: https://n9.cl/mrdwp</p>
6.	<p>Electronic Petition & Feedback Portal for Rector’s Office</p>	<p>University Presidency Paperless Administration & Transparency Directive</p>	<p>Available to all citizens, students, and staff to communicate directly with the University Executive Leadership.</p>	 <p>Link: https://complaints-app.nahrainuniv.edu.iq/</p>



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[7] Governance and Digitalization (GD)

[7.13](GD.7) Use of advanced digital technologies, such as Artificial Intelligence and Internet of Things, to support decision-making, operational efficiency, and service delivery across university administrative and academic business processes.

No	Initiative	Policy Basis	Implementation Scope	Evidence
1	Comprehensive Digital Transformation of University Leadership & Administration Offices.	Ministry of Higher Education Strategic Directives for Modern Electronic Administration.	Applies to the executive administration offices, including the President's Office and the Scientific Assistant's Office, to automate workflows and enhance operational efficiency.	https://nahrainuniv.edu.iq/ar/nod/e/27732
2	Automated Human Resources & Payroll Management Platform	Administrative Digital Transformation & ERP Roadmap	Applies to all faculty, staff, and permanent/contractual personnel across Al-Nahrain University for digital record-keeping and salary auditing.	





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3	Smart ID & Access Control System	Smart RFID Campus Identity & Access Control System	Predictive analytics for enrollment trends, retention monitoring, and resource planning	
4	Cloud-Based Integrated Digital Library & Institutional Repository	University Academic Transformation & Open-Access Research	University-wide access for all undergraduate, postgraduate students, and faculty members to digital books, dissertations, and electronic resources.	https://lib.nahrainuniv.edu.iq/
5	Centralized E-Governance & Document Management System	University Presidency Paperless Administration Directive	University-wide (Presidency offices, college deans, and administrative departments) for official correspondence tracking.	



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6	Centralized Student Information System (SIS) Platform	Ministry of Higher Education Strategic Digital Transformation Directive	 Institution-wide deployment across all colleges and departments for automated student records, registration, and academic progression tracking.	
7	Automated Payroll & Incentive Viewing Systems	Institutional Administrative Digital Transformation & Financial ERP Roadmap	Enforced across the financial and HR departments for all university faculty, staff, and permanent personnel.	https://salaryinfo.nahrainuniv.edu.iq/
8	Postgraduate Admissions & National Testing Systems	Ministry of Higher Education Graduate Studies Regulations	Deployed online for all local and national applicants seeking postgraduate admissions and automated testing.	https://hadm.nahrainuniv.edu.iq/
9	Centralized Faculty Digital CV System	Academic Quality Assurance & Institutional Governance Guidelines	Mandatory for all academic faculty members across all university colleges and research centers.	https://cv.nahrainuniv.edu.iq/
10	Electronic Petition &	University Presidency	Available to all citizens, students,	https://complaints-app.nahrainuniv.edu.iq/





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	Feedback Portal for Rector’s Office	Paperless Administration & Transparency Directive	and staff to communicate directly with the University Executive Leadership.	
11	Integrated Student Housing Platform	Institutional Student Welfare & Digital Infrastructure Policy	Applied to all residential students applying for on-campus housing and dormitories.	https://dormitories.nahrainuniv.edu.iq/?q=node/1
12	Digital Vehicle Access & Campus Badge Management System	Smart Campus Security & Digital Infrastructure Policy	Deployed university-wide for all faculty, staff, and students to digitize vehicle permit applications and campus access control.	https://badges.nahrainuniv.edu.iq/
13	Automated Employee Incentives & Rewards Calculation System	Institutional Administrative Modernization & Financial Digital Transformation Policy	Deployed across all administrative and financial departments to automate the performance-based incentives for university staff and faculty.	https://points.nahrainuniv.edu.iq/log_in.aspx



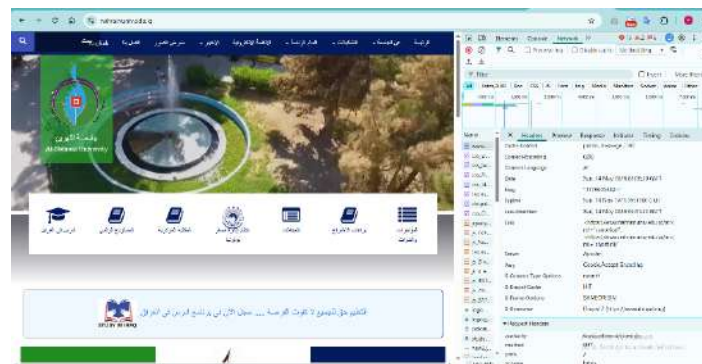
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14	HEPIQ Smart Education Platform & Academic Portal	Ministry of Higher Education Strategic Directives for Smart & Digital Education	Adopted university-wide since last year and continuing through the present for both students and lecturers to meet educational needs, support digital transformation, and manage academic affairs.	
15	Moodle Learning Management System (LMS)	Institutional E-Learning Infrastructure	Deployed university-wide since 2020 across all colleges and academic departments for virtual classrooms, digital course delivery, and continuous student assessment.	



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- Cloudflare Security Integration: The university utilizes Cloudflare's advanced infrastructure routing system to protect its databases and corporate web services from external vulnerabilities.
- Al-Nahrain University employs a multi-layered defense architecture to protect its websites. As evidenced by its technical header logs, the university utilizes an enhanced enterprise content management framework based on the Drupal platform, configured with server-side active risk mitigation (x-drupal-cache:HIT). In line with best information security practices, the university implements a rigorous automated infrastructure masking system to shield external routing data from public metadata tracking, thereby preventing targeted evidence-gathering attacks and minimizing data loss.



- DDoS Protection and Network Mitigation: Advanced technical protection measures are in place to continuously mitigate DDoS attacks, ensuring seamless business continuity.
 - HTTPS Encryption Protocols: All data transmitted across the university's networks and subdomains is rigorously secured using robust HTTPS encryption protocols, preventing any unauthorized interception or eavesdropping.
- 3- Identity and Access Management (IAM) & Role-Based Access Control (RBAC)



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Al-Nahrain University enforces a strict governance framework for user access control and data security, as officially documented in Decree No. 50 (Section 3) and verified through live system architectures:

- Granular Role-Based Access Control (RBAC): System access is heavily regulated based on job functions. As evidenced by the university's content management logs, specific technical privileges are assigned exclusively to authorized personnel, maintaining a clear distinction between administrative rights and Content Authors.
- Automated Spam & Brute-Force Prevention: The centralized user authentication gateway mandates a compulsory CAPTCHA verification protocol alongside encrypted credential validation to shield administrative dashboards from automated cyber-attacks.

USERNAME	STATUS	ROLES	MEMBER SINCE	LAST CHANGED	LAST ACCESS	OPERATIONS
Dr.Jalal	Blocked	• content authoring	1 year 10 months	1 week 1 day ago	2 months 2 weeks ago	+81
Orhan	Blocked	• administrator	4 years 5 months	6 months 3 weeks ago	4 years 5 months ago	+81
nasim	Blocked	• administrator	5 years 7 months	1 week 1 day ago	3 years 7 months ago	+81
[redacted]	active	• administrator	6 years 5 months	2 years 9 months ago	1 year 2 months ago	+81
omar admin	Blocked	• administrator	8 years 7 months	2 years 2 months ago	7 years 9 months ago	+81
[redacted]	active	• administrator	9 years 8 months	6 months 3 weeks ago	6 last ago	+81
Clara	Blocked	• administrator	9 years 8 months	1 year 2 months ago	3 years 11 months ago	+81
ahmed	active	• administrator	10 years 6 months	6 months 3 weeks ago	49 min 3 sec ago	+81
taa.jalal	Blocked	• book form	11 years 11 months	11 years 11 months ago	13 years 11 months ago	+81
Uday Jalal	Blocked	• Theoretical	12 years 1 month	4 years 2 months ago	3 years 3 months ago	+81
Uday Jalal	Blocked	• Theoretical	12 years 3 months	12 years 3 months ago	13 years 10 months ago	+81

User account

Log In Request new password

Username *

Password *

CAPTCHA

This question is for bonding humanity across you and a bot. It is not a test of your intelligence or IQ.

EAFKj

What code is in the image? *

Log In



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4- Data Minimization, Privacy Shielding & Periodic Backups

- Information Concealment: In strict alignment with privacy-by-design principles, institutional system architectures enforce automated data minimization algorithms that systematically conceal sensitive personal or institutional identifiers from public viewing.
- Automated Data Retention & Recovery: The hosting environment executes regular periodic data backups and disaster recovery protocols to prevent catastrophic data loss and ensure system reliability during unexpected technical incidents.



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[7] Governance and Digitalization (GD)

[7.15] Total Number of Institutional Leaders and Deputy Leaders at University, Faculty, Study Program, and University-Level Units

Total Number of Institutional Leaders	333
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[7] Governance and Digitalization (GD)

[7.16] Number of Female Representation on Leadership Position at University, Faculty, Study Program, and University-Level Units

Number of Female Representation on Leadership Position	155
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[7] Governance and Digitalization (GD)

[7.17] (GD.8) Ratio of Female Leaders to Total Institutional Leaders.

Leadership Level	Total Leaders & Deputies	Female Leaders & Deputies
University Level	54	16
Faculty and Study Program Level	255	127
University-Level Units	24	12
Total	333	155

$$\text{Ratio of Female Leaders} = \frac{155}{333} \times 100 = 46.5\%$$



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[7] Governance and Digitalization (GD)

[7.18] (GD.9) Anti-Corruption and Integrity System of the University (new)

Al-Nahrain University continues its tireless efforts toward digital transformation to enhance transparency, integrity, and combat corruption. The university is working to implement a comprehensive electronic system for managing reports of corruption. This secure digital platform is designed to automate administrative procedures and track reports of corruption and administrative violations within the university campus (if any), and is managed confidentially until appropriate action is taken. The system is currently operational and accessible to all.

Evidence link: <https://complaints-app.nahrainuniv.edu.iq/>



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[7] Governance and Digitalization (GD)

[7.19] (GD.10) Whistleblowing and complaint system of the university (new)

Al-Nahrain University continues its tireless efforts toward digital transformation to enhance transparency, integrity, and combat corruption. The university is implementing a comprehensive electronic complaints management system. This secure digital platform is designed to automate administrative procedures and track complaints received by the university (if any), and is managed with complete confidentiality until appropriate action is taken. The system is currently operational and accessible to all.

Evidence link: <https://complaints-app.nahrainuniv.edu.iq/>



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[7] Governance and Digitalization (GD)

[7.20] (GD.11) Implementation of Digital Literacy programs at the University

Al-Nahrain University is highly dedicated to enhancing the digital competencies and information literacy of its academic community, including students, faculty, and administrative staff. The university systematically organizes comprehensive digital literacy programs, workshops, and training courses integrated across various colleges

These educational initiatives cover key modern digital dimensions, including:

- Cybersecurity & Digital Safety: Protecting personal and institutional data, countering electronic blackmail, and raising awareness about digital citizenship and threats in the cyberworld.
- AI & Smart Research Tools: Training researchers and students on the ethical usage, regulations, and mechanisms of deploying Artificial Intelligence in scientific research.
- Academic Integrity & Plagiarism Prevention: Educating postgraduate and undergraduate students on scientific citation styles, reference management tools (like Mendeley/EndNote), and intellectual property rules.
- E-Learning Infrastructure: Enhancing skills in utilizing electronic databases, the digital library, and Learning Management Systems (LMS).

No.	Course / Workshop Title	Number of Participants	Date
1	Digital Scientific Research Skills	55	2026
2	Utilization of Electronic Databases	42	2026
3	Academic Integrity and	103	2026



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	Plagiarism Prevention		
4	Scientific Documentation and Citation Methodologies	41	2026
5	Utilization of E-Learning Systems (LMS)	131	2026
6	Utilization of the Digital Library	110	2026
7	Cybersecurity	279	2025 and 2026
8	Data Protection and Privacy	111	2026
9	Reference Management using (Mendeley / EndNote)	120	2025 and 2026
10	Scientific Publishing and Journal Selection	100	2025 and 2026
11	Using Artificial Intelligence in Scientific Research	376	2025 and 2026
12	Others: Any related courses/workshops contributing to digital literacy goals and digital transformation	320	2025 and 2026

- Digital Ethics & Information Integrity (Cyber Governance): Enforcing the university's official "Cybersecurity Guidance and Compliance Manual" published directly on the university's domain. This strategic ethical framework sets the global guidelines for safe digital citizenship, privacy protection, data confidentiality, and strict rules against digital exploitation or cyber blackmail for all campus stakeholders.

Evidence link: <https://nahrainuniv.edu.iq/sites/default/files/الامن%۲۰السيبراني.pdf>

These continuous programs effectively bridge the digital divide, foster a secure transition toward complete digital transformation, and promote sustainable learning methodologie.



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[7] Governance and Digitalization (GD)

[7.21] (GD.12) Written Code of Ethics that applies to university leaders, academic staff, administrative staff, and students

Al-Nahrain University strictly enforces a comprehensive ecosystem of legally binding written codes of conduct, institutional ethics, and digital compliance frameworks. These official regulations comprehensively govern the responsibilities, equity, and transparency across all university levels (leaders, academic faculty, administrative staff, and students):

Institutional & Professional Conduct (Traditional Governance):

1- State Employees Discipline Law (No. 14 of 1991, Amended): Establishes explicit regulations regarding public service duties, institutional transparency, and administrative accountability for all university leaders and employees.

Evidence: <https://nahrainuniv.edu.iq/sites/default/files/قانون%20انضباط%20موظفي%20الدولة.pdf>

2- Student Discipline Law in Institutions of Higher Education (Ministry Decree No. 160 of 2007): Governs student behavior inside campus boundaries, promotes mutual respect, prevents academic fraud, and outlines formal disciplinary measures.

Evidence : <https://nahrainuniv.edu.iq/sites/default/files/تعليمات%20انضباط%20الطلبة.pdf>

3- Ministry of Higher Education Code of Academic Ethics: Regulates academic integrity and scientific research honesty for faculty members.

4- Evidence : <https://nahrainuniv.edu.iq/sites/default/files/قانون%20الخدمة%20الجامعية.pdf>



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- 5- The University Cybersecurity Guidance and Compliance Manual: Published officially on the university’s domain, this ethical framework sets the guidelines for safe digital citizenship, privacy protection, data confidentiality, and rules against digital exploitation or cyber blackmail for all campus stakeholders.

Evidence: <https://nahrainuniv.edu.iq/sites/default/files/الامن%20السيبراني.pdf>

- 6- University Leaders and Academic Staff: Governed by the Law of Ministry of Higher Education and Scientific Research and the Scientific Promotions Regulations, which outline ethical academic responsibilities, research integrity, and professional leadership standards.

Evidence:

<https://nahrainuniv.edu.iq/sites/default/files/قانون%20وزارة%20التعليم%20العالى.pdf>